

Learn Everywhere Competencies

Arts

3D Modeling

Modeling Basics and Applications	Students will demonstrate an understanding of 3D modeling basics and applications by defining basic terminology and uses of 3D modeling, describing the historical development of 3D modeling, explaining 3D modeling techniques, articulating social change corresponding with 3D modeling development, describing current and future applications of 3D modeling and explaining computer components and programming concepts.
Digital Citizenship and Ethics	Students will demonstrate an understanding of digital citizenship and ethics as they relate to 3D modeling by explaining digital citizenship responsibilities, plagiarism, and emerging technologies and describing copyright dynamics, applications, and violations.
3D Modeling Environments in Blender	Students will demonstrate an understanding of 3D modeling environments in Blender by utilizing Blender, comparing various 3D modeling techniques, and explaining and using 3D objects, digital tools and resources.
Visual Elements	Students will demonstrate an understanding of 3D modeling visual elements by explaining the process of visualization, identifying and applying related technical concepts, articulating the effects of light and perspective, and describing the implementation of visual simulation.
Light and Shade	Students will demonstrate an understanding of light and shade in 3D modeling by explaining the basics of lighting and shading, describing and utilizing lighting techniques and applications, and using lighting commands in Blender.
3D Geometrics	Students will demonstrate an understanding of 3D geometrics by using Blender geometric navigation and design, and applying transforms and modifiers to 3D objects.
Texturing and Rendering	Students will demonstrate an understanding of texturing and rendering by explaining the technical concepts of texture and rendering, applying texture and render in Blender, analyzing and utilizing camera and light for effective render, and creating a 3D scene.
Careers and Applications of 3D Modeling	Students will demonstrate an understanding of careers and applications of 3D modeling by identifying the use of 3D models in various industries and the real-world, using modeling techniques to create an environmental model, explaining the impact of environmental models, and differentiating careers in which 3D modeling skills could be applied.

Graphic Design

Design Industry & Adobe Creative Suite	Students will demonstrate an understanding of the design industry and how to use Adobe Creative Suite by explaining design industry project management, how to use Adobe Creative Suites, and how to make content decisions regarding digital designs.
Digital Graphics & Illustrations	Students will demonstrate an understanding of digital graphics and illustrations by defining graphic design terms, explaining visual tools to create designs and how to use them, and describing color theory.

Adobe Illustrator	Students will demonstrate an understanding of Adobe Illustrator by describing its functions, explaining the user interface and tools, and defining layers and how they are best used.
Creating, Exporting & Publishing	Students will demonstrate an understanding of how to create, export, and publish a digital project using Adobe Illustrator by explaining the use of vectors and shapes, identifying and describing editing tools, and explaining the exporting process.
Design Industry	Students will demonstrate an understanding of the digital design industry and its tools by explaining what Adobe Creative Suite encompasses, summarizing project management, defining copyrights and describing how visuals are used in Adobe InDesign.
InDesign Interface	Students will demonstrate an understanding of InDesign interface and applications by explaining the creation process, editing functions, and applying visual design applications to a digital design.
Organizing, Creating & Modifying Visual Elements	Students will demonstrate an understanding of how to organize, create, and modify visual elements in InDesign by explaining the layers and frames functions and evaluating the use of layers, frames and characters effects on the final digital graphic.
Editing Visual Elements	Students will demonstrate an understanding of how to edit visual elements in InDesign by using the editing tools, applying the interactive elements, and reviewing and publishing a graphic design.

Art History

Critiquing Art	Students will demonstrate an understanding of critiquing art by explaining the four steps in the critiquing process, critique pieces of art, and explain the purpose of critiquing a piece of art.
Prehistoric and Ancient Art	Students will demonstrate an understanding of Prehistoric Art and Ancient Art by analyzing and comparing the different characteristics of Prehistoric Art and Ancient Art, and explain how their culture impacted their artwork.
Modern Art	Students will demonstrate an understanding of modern art by analyzing how current events and technology inspired Modern Art such as as Realism, Impressionism, and Post Impressionism, and how these movements influenced later art styles and movements.
Ancient Roman, Early Christian and Medieval Art	Students will demonstrate an understanding of Ancient Roman, Early Christian and Medieval Art by analyzing and explaining the characteristics of each era and examining the relationship between the art and culture of an era.
The Renaissance	Students will demonstrate an understanding of The Renaissance by explaining the different characteristics and social influences in this era's artwork while analyzing a variety of Renaissance artist's artwork.
Art of the Americas	Students will demonstrate an understanding of Art in the Americas by comparing and contrasting the characteristics of the different civilizations artwork while explaining the influences and variety of techniques used by each civilization.
From the Baroque to the Romantics	Students will demonstrate an understanding of Baroque art to the Romantics art by explaining the social influences and characteristics of each period and analyzing their artwork.

Modern Art	Students will demonstrate an understanding of Modern Art by defining the different art movements throughout this time, explaining their characteristics and inspirations, and analyze the influences of the different movements.
African Art and Oceanic Art	Students will demonstrate an understanding of African Art and Oceanic Art by explaining how the natural and social world influenced their art by examining, identifying characteristics of, and discussing art from Africa and Oceanic cultures

Pictorial Art

Line Drawings	Students will demonstrate an understanding of the different types of line drawings by explaining the purpose of each type and drawing an item using each type.
Perspective Drawings	Students will demonstrate an understanding of perspective drawings by explaining the difference between a one-point and two-point perspective drawing and creating shaded, one-point and two-point perspective drawings.
Still Life Drawings	Students will demonstrate an understanding of still life drawings by explaining the use of space and the role of proportion and creating a properly shaded illustration of a still life.
Surrealism	Students will demonstrate an understanding of surrealism by explaining the characteristics of surrealism, analyzing different surrealist artists' artwork, and creating their own surreal drawing.
Self-Portrait	Students will demonstrate an understanding of self-portrait drawings by examining and explaining the proportions of the human head and creating their own self-portrait.
Pointillism	Students will demonstrate an understanding of pointillism by explaining the techniques for creating a variety of values in pointillism and using ink to create a pointillism drawing.
Color	Students will demonstrate an understanding of using color in their drawings by analyzing the different groups on the color wheel, mixing colors to create desired colors, and using colored pencils in a three-stage drawing.
Figure Drawing	Students will demonstrate an understanding of figure drawing by examining and explaining the proportions of the human body and using charcoal to create their own figure drawing.
Cartooning	Students will demonstrate an understanding of cartooning by explaining common characteristics of cartoons and applying them to their own cartoon creation.
Color Theory in Landscape Painting	Students will demonstrate an understanding of color theory in landscape painting by explaining the layout of the color wheel, comparing and contrasting a variety of color schemes, mixing colors, and applying color theory to an original landscape painting.
Watercolor	Students will demonstrate an understanding of watercolor by explaining the characteristics of watercolor, and applying watercolor techniques to create a painting.
Pop Art	Students will demonstrate an understanding of pop art by analyzing a variety of pop art artists' paintings, explaining the characteristics of pop art, and creating their own pop art-inspired painting.

Filmmaking

Filmmaking Storytelling	Students will demonstrate an understanding of storytelling in filmmaking by explaining story structure, visual language, and the 3-basic shot sizes of filmmaking and by creating short and visual stories.
Filmmaking Editing	Students will demonstrate an understanding of editing in filmmaking by using Adobe Workspace to use create and edit a story.
Cinematography	Students will demonstrate an understanding of filmmaking cinematography by explaining shooting basics, basic set safety measures, and how to use cinematography settings and sound effectively.
Filmmaking Production & Dialogue	Students will demonstrate an understanding of filmmaking production & dialogue by explaining the pre-production process, shooting process, and writing a dialogue scene.

Music

Elements of Music: Getting to Know the Guitar	Students will demonstrate an understanding of guitar terminology and technique by examining music terminology as it relates to guitar, learning to properly hold and tune a guitar, and mastering basic right or left-hand fingering techniques.
Making Music on the Guitar	Students will demonstrate an understanding of making music on the guitar by mastering chords, synchronizing hands, learning to read guitar tablature, and exploring improvisation techniques.
Chord Accompaniment	Students will demonstrate an understanding of chord accompaniment by learning chord progressions and demonstrating proper major and minor chord strumming, plucking and chord changes while playing the guitar.
Reading Guitar Music: Treble Strings	Students will demonstrate an understanding of how to read standard music notation by learning the notes on each string, how to play treble notes, to read rests and rhythm patterns, and to play music on the guitar.
Music Theory: Music Composition Basics	Students will demonstrate an understanding of Music composition by examining half and whole-step intervals, sharps and flats, and major scales.
Reading Guitar Music: Bass Strings	Students will demonstrate an understanding of how to read standard music notation by learning how to play bass notes, read rests and rhythm patterns, and play music on the guitar.
Guitar Ensembles, Chords, Triads, and The Blues	Students will demonstrate an understanding of guitar ensembles by learning various ensemble types and how to analyze, evaluating musical composition, learning key signatures, and practicing primary chords.
Guitar Music Basics	Students will demonstrate an understanding of guitar music basics by explaining guitar tablature and fretboard diagrams and reading standard notation while playing the guitar.
Making Movable Music	Students will demonstrate an understanding of movable music by playing movable chord progressions, movable pentatonic and blues scales and explaining the intervals, enharmonic notes, and natural intervals that they play.
Chord Skills	Students will demonstrate an understanding of chords by identifying and playing major and minor chords as accompaniment in songs.

Playing Riffs	Students will demonstrate an understanding of strum patterns by Identifying riffs of famous guitarists and playing chords, strum and fingerstyle riffs.
String Instruments	Students will demonstrate an understanding of instrument families by describing the characteristics of instruments in the string family and explaining their pitch ranges.
The Elements of Music and Keyboard Basics	Students will demonstrate an understanding of the elements of music and keyboard basics by defining the basic elements of music, explaining the relationship between time and sound in music, identifying finger numbers as well as different notes and rhythms, and demonstrating how to play a piece of music using the black keys and a variety of dynamics.
Music Notation and the Keyboard	Students will demonstrate an understanding of music notation and the keyboard by describing fundamental concepts of music notation, identifying the location of all the white keys on the keyboard, and playing rhythm studies and melodies as well as a piece of music using note and rest values.
The Basics of Reading Piano Music	Students will demonstrate an understanding of the basics of reading piano music by describing fundamental concepts of the grand staff, explaining steps and skips, identifying changes in pitch, comparing and contrasting dynamic marks, and playing two notes on the piano simultaneously as well as pieces of music that use notes on the treble and bass clef staff.

Music History

Cultural Influences of Jazz and Popular Music	Students will demonstrate an understanding of the cultural influences of jazz and popular music by distinguishing between different sources of American jazz and pop music genres, such as swing, hot jazz, cool jazz and blues, and examining the influences of those genres on American culture and musicians.
Early Music of the Western World: Ancient and Renaissance	Students will demonstrate an understanding of early music of the Western world, including Ancient and Renaissance, by applying knowledge this music to describe characteristics of music and musicians that represent this period of music.
Foundations of Music	Students will demonstrate an understanding of the foundations of music by analyzing music, with and without aural stimulus, to identify melody, harmony, rhythm, dynamics and form.
Later Music of the Western World: Baroque, Classical Era and Romantic Period of Music	Students will demonstrate an understanding of later music of the Western world including Baroque, Classical Era and Romantic Period by describing characteristics of music and musicians that represent these periods and types of music.
Societal Implications of Music of the Western World	Students will demonstrate an understanding of societal implications of music of the Western world by explaining the evolution of music and interpreting its implications for society.
Guitar in American Music	Students will demonstrate an understanding of various music styles by learning about the techniques of bluegrass, rock and jazz music and their influences in American society.

Theater

Understanding Theater	Students will demonstrate an understanding of the impact of religion, myth and philosophy on theater by analyzing the influences that religion, myth & philosophy play in the development of theater.
Theater and Film History, Theory & Criticism	Students will demonstrate an understanding of film and theater history, drama theory, and film/theater criticism by examining the similarities and differences between film and theater over time.
Theater and Film Genres	Students will demonstrate an understanding of film and theater genres by explaining the differences between drama and tragedy; the history, elements and purposes of comedy, musical and experimental theater; and the elements and purposes of comedy, adventure and fantasy film.
Writing the Script	Students will demonstrate an understanding of film screenplays and theater scripts by explaining the components and structure of scripts and screenplays as they contribute to the development of storylines.
Acting the Part	Students will demonstrate an understanding of the acting process from audition to performance by describing different acting styles used for stage and for screen.
Directing and Preserving Film and Theatrical Performances	Students will demonstrate an understanding of directing and preserving film and theatrical performances by examining and explaining the directing process for films, the directing process for theater, and the role and mechanisms of recognition in both film and theater.
Script Development Process	Students will demonstrate an understanding of the script development process by applying prewriting techniques, developing an elevator pitch, and using the parts of a script to develop a short film script.
Pre-Production Process	Students will demonstrate an understanding of the pre-production process in filmmaking by creating a storyboard that includes a variety of planning elements and analyzing camera shots needed for their film.
Production Process	Students will demonstrate an understanding of the production process by developing a shot list, using proper lighting and audio techniques, and following a video production schedule and checklist to film scenes for a short film.
Post-Production Process	Students will demonstrate an understanding of the post-production process by identifying and applying editing techniques, and revising their film into the final cut.

Culinary Arts

Safety and Kitchen Tools	Students will demonstrate an understanding of kitchen tools and safety by explaining basic cooking techniques, food handling and preparation, cleanliness, kitchen safety, and first aid.
Culinary History	Students will demonstrate an understanding of the history of the culinary field by exploring cooking methods throughout the ages, modern food science, cultures' role in cuisines, and the history and role of the Garde Manger.
Budgeting	Students will demonstrate an understanding of budgeting in the culinary field by examining standardization of recipes, cost analysis, weights and measure, and the principles of food preparation.

Culinary Profession	Students will demonstrate an understanding of the culinary profession by investigating the history of the food service, roles within the kitchen, and various forms of leadership.
Healthy Kitchen & Its Tools	Students will demonstrate an understanding of a healthy kitchen and tools of the trade by investigating food groups, nutritional guidelines, kitchen tools and equipment, and the role of mise en place.
Stocks, Sauces, and Soups	Students will demonstrate an understanding of stocks, sauces, and soups by investigating the five mother sauces, components of stock, classification of soups, and thickening agents.
Baking	Students will demonstrate an understanding of the field of baking by investigating baking ingredients, the science of baking, and baking techniques.
Culinary Business and Service	Students will demonstrate an understanding of Culinary Business and Service by investigating the history of the food service industry, styles of food service, managing a business, customer service, and etiquette.

Photography

Camera Anatomy and Function	Students will demonstrate an understanding of basic camera anatomy and function by identifying the parts of a camera and using various camera modes, such as auto, manual, aperture and shutter priority to take original photographs.
History of Photography	Students will demonstrate an understanding of how photography has changed throughout history by analyzing changes in camera technology and how these have impacted photography over time.
The Artistic Process in Digital Photography	Students will demonstrate an understanding of careers in digital photography and the stages of production by identifying jobs associated with digital photography and completing the pre-production, production, and post-production stages for a photoshoot.
Image Editing and Presentation	Students will demonstrate an understanding of image editing and presentation by using a photo editing program to manipulate photographs, planning an exhibit and creating a photography portfolio.
Light and Composition in Photography	Students will demonstrate an understanding of how photographers use light and composition in a photograph by explaining how light is used in photography, explaining various composition guidelines, and taking original photographs that use various types of light and compositions.
Style and Genre	Students will demonstrate an understanding of style and genre in photography by comparing and contrasting stylistic characteristics of different genres of photography.
Workflow	Students will demonstrate an understanding of the workflow used by professional photographers by examining methods photographers use for organizing, post-processing, and publishing images.
Composition	Students will demonstrate an understanding of composition by applying and analyzing the impact of visual elements and principles of design in original compositions and by critiquing the photos of others.
Communities and Collaboration	Students will demonstrate an understanding of the role that communities and collaboration play in their growth as a photographer by identifying opportunities to network with other photographers and explaining how these opportunities can help them develop as a photographer.

Professional Portfolio	Students will gain an understanding of how to create a professional portfolio by developing an artist's statement, selecting photographs and organizing photographs to create a final portfolio of their work.
Art, Product and Stock Photography	Students will demonstrate an understanding of art, product, and stock photography by analyzing the characteristics and critiquing images from various fields of photography.
Digital Photography Careers	Students will demonstrate an understanding of careers that utilize digital photography by comparing and contrasting a variety of specialty photography careers.
Legal and Ethical Issues	Students will develop and demonstrate an understanding of legal and ethical issues regarding the production and distribution of digital photography for public consumption by researching, creating and using materials that address legal and/or ethical issues related to photography.
Photography Tools and Techniques	Students will demonstrate an understanding of a variety of technology tools and darkroom techniques by evaluating such tools for applications related to different types of photography.

Fashion and Design

Careers in Fashion and Interior Design	Students will demonstrate an understanding of careers in fashion and interior design by explaining a variety of employment opportunities, their responsibilities, and the education and training requirements.
Basic Skills for the Design Industry	Students will demonstrate an understanding of the basic skills needed for the design industry by describing the elements of design, explaining color's relationship to design, and explaining the importance of communication in the design industry.
Tools and Fabric	Students will demonstrate an understanding of the tools and fabrics used in the design industry by describing the functions of a variety of design tools and the characteristics of natural and synthetic fabrics.
Clothing Trends, Styles & Proper Fit	Students will demonstrate an understanding of trends, styles and proper fit by explaining the role of fashion forecasters, the variety of different attires, and how to properly fit a wide range of different body types.
Creating a Fashion Design Outfit	Students will demonstrate an understanding of how to create a fashion design outfit by explaining the process of brainstorming, articulating how to follow a budget, and drawing out their own design outfit.
Environmental Design and Style Changes Throughout the Years	Students will demonstrate an understanding of environmental design and style changes throughout the years by explaining the idea of green design, identifying green products, and analyzing how society and politics shape design styles.
Designing a Room	Students will demonstrate an understanding of designing a room by describing items to consider in a design budget, providing examples of preliminary questions for a client, and explaining the importance of a color scheme in a design.
Becoming a Design Professional	Students will demonstrate an understanding of becoming a design professional by providing examples of good work ethic, describing what to include in a resume, and by identifying what to include in a professional portfolio.

Business and Finance

Personal Finances

Education, Careers and Income	Students will demonstrate an understanding of education, careers and income by explaining education required to meet goals beyond high school, influences on choice of jobs or careers, and factors that affect income such as major taxes and budgets.
Balancing Spending and Saving	Students will demonstrate an understanding of balancing spending and saving by explaining smart consumer decision making, saving and protection mechanisms, and impact of interest rates and inflation.
Understanding Credit	Students will demonstrate an understanding of credit by explaining types of credit, the total cost of credit, types of loans, down payments, credit reports and scores, credit offers, consumer protection laws, debt, and bankruptcy.
Managing Financial Risks	Students will demonstrate an understanding of managing financial risks by explaining investments, risk and return of investment types, diversification, insurance and extended warranties, identity theft and protection.

Marketing

Foundations of Marketing and Advertising	Students will demonstrate an understanding of the foundations of marketing and advertising by identifying historical marketing and advertising terms, business activities and laws as they relate to the industry today.
Careers in Marketing and Advertising	Students will demonstrate an understanding of the roles and responsibilities necessary for a career in marketing and advertising by examining the education, leadership, and technical skills necessary to succeed in a working environment.
The Business of Marketing and Advertising	Students will demonstrate an understanding of the business of marketing and advertising by analyzing the impact of a budget and finances on advertising production and market buying decisions.
Diversity and its Impact on Marketing	Students will demonstrate an understanding of diversity and its impact on marketing by identifying the multicultural and multigenerational perspectives that influence marketing decisions in all industries.
Principles and Practices of Selling	Students will demonstrate an understanding of principles and practices of selling by researching and analyzing the foundational principles of selling and how these are implemented in practice.
Global Marketing	Students will demonstrate an understanding of global marketing strategies by analyzing and explaining product goods and services, channel management, and economic and marketing trends that occur when buying and selling internationally.
Sales: People, Processes, Strategies and Numbers	Students will demonstrate an understanding of sales by explaining various sales positions, salesperson success traits, sales tools and techniques, and sales reporting methods.
Technology and the Future of Marketing and Sales	Students will demonstrate an understanding of the future of marketing and sales by explaining marketing communications technology and the use of virtual communications, describing electronic sales technology platforms for presentations and reporting, and identifying trends that affect market research.

Legal Issues and Ethics in Marketing	Students will demonstrate an understanding of legal issues and ethics in marketing by investigating and explaining ethical and legal issues related to marketing, promotion and distribution of products and services and information management.
Social Media Past and Present	Students will demonstrate an understanding of social media's past and present by defining social media, identifying various types of social media, and explaining the rise of social media's popularity.
Social Media Platforms & Interpersonal Communication	Students will demonstrate an understanding of social media and interpersonal communication by explaining the history of various social media platforms, describing the use of social media security features, explaining why social media is a popular form of personal interaction, and using features of social media platforms for interpersonal communication.
Personal Brands & Marketing with Social Media	Students will demonstrate an understanding of personal brands and marketing with social media by explaining how to and the importance of building an online personal brand, establishing a personal brand with a blog, and describing how to use various social media platforms tools for marketing.
Benefits and Drawbacks of Social Media	Students will demonstrate an understanding of the benefits and drawbacks of social media by describing how social media benefits us individually and as a society, identifying the drawbacks of social media, and explaining healthy social media habits.

Economics and Business

Economic Concepts	Students will demonstrate an understanding of the economic concepts including supply and demand by describing economic standards, explaining concepts associated with supply and demand, and analyzing the role of currency.
Money Management	Students will demonstrate an understanding of money management by differentiating between wants versus needs, analyzing spending, saving and investing options, and explaining the process for creating a budget.
Microeconomics	Students will demonstrate understanding of microeconomics including the interaction between the factors of production and market forces by identifying the resources needed for producing goods, explaining the characteristics of various markets, and predicting the impact production factors and market forces have on business profitability and economic growth.
Macroeconomic Concepts	Students will demonstrate an understanding of macroeconomic concepts by describing government's role in the economy, explaining the impact of the country's economics trade goals, and analyzing the economic interactions between the government, its citizens, and the rest of the world.
Global Commerce and Finance	Students will demonstrate an understanding of global commerce and finance by examining global business interdependency, activities, and components of international business, and researching monetary systems and global banking strategies.
Regional Integration, Trade Relations, and International Law	Students will demonstrate an understanding of regional integration, trade relations, and international law by examining laws that impact trade, how politics and governments impact global business and analyzing trade agreements and global competition.

International Law and Global Organizations	Students will demonstrate an understanding of international laws and global business organizational structures by investigating international law and comparing various organizational structures to identify connections to international business.
Cultural Influences	Students will demonstrate an understanding of the cultural influences on global business by examining the cultural influences, sub cultures and communication characteristics that impact global business relations.
Global Marketing and Logistics	Students will demonstrate an understanding of global marketing and business logistics by examining the development, pricing, marketing, and distribution of global products.
Managing in a Global Market	Students will demonstrate an understanding of a global economy by analyzing characteristics of a global economy, explaining how to navigate trade concerns and developing a global strategy.
Financial and Informational Management	Students will demonstrate an understanding of financial and information management by analyzing the need for financial management in business, explaining budgets and financial reporting, and describing technological systems for managing information.
Managing Business	Students will demonstrate an understanding of managing business by analyzing and incorporating an organizational structure, a leadership approach, and a controlling method into an effective business plan.
Business Development and Environments	Students will demonstrate an understanding of business development and environments by developing a basic business plan which includes the business cycle, analyzes the advantages/disadvantages of owning a business, and reflects sound business ethics.
Global Business and Marketing	Students will demonstrate an understanding of the interconnections of global business operations by explaining international trade, domestic economies, the impact of global trade on business decisions, and the basics of marketing.
Marketing Fundamentals and Regulation	Students will demonstrate an understanding of marketing fundamentals and regulations by explaining the purpose and regulations and ethics of marketing, completing a market analysis, developing a marketing strategy, and creating a marketing plan.
Product Planning and Merchandising	Students will demonstrate an understanding of product planning and merchandising by analyzing the impact merchandising has on a product's success as they prepare branding materials, pricing, floor plans (planograms) while considering legal requirements.
Business Ethics	Students will demonstrate an understanding of business ethics by researching ethical practices in business, identifying moral and legal issues, and analyzing the benefits of sustainable practices in business.
Global Business and Government Impact	Students will demonstrate an understanding of global business and the impact of government on business by evaluating the importance of international trade and its impact on the US economy and researching the relationship between government and business.
Business Data & Technology	Students will demonstrate an understanding of the importance of data in business by evaluating information literacy skills, researching the impact of data mining, and investigating the importance of security and privacy practices in business

Entrepreneurship

The Value Creation Mindset	Students will demonstrate an understanding of the value of creation mindset by examining the distinction between value and money, explaining various kinds of value exchanges, and completing value creation exercises.
Nigel's Law	Students will demonstrate an understanding of Nigel's Law by analyzing various business pitches to identify the parts of Nigel's Law and make and defend judgments about the businesses' potential value.
The Idea Generation Process	Students will demonstrate an understanding of the entrepreneurial idea generation process by using the processes for the three major categories Improve, Borrow, and Breakthrough and the three main starting points for generating ideas Solution, Customer, and Experience to generate their own ideas.
The Idea Evaluation & Selection Process	Students will demonstrate an understanding of the idea evaluation and selection process by evaluating all of their ideas against standard success indicators, thinking objectively about their own assets, strengths, and skills, and selecting an idea to pursue further.
Creating Value for Your Customers	Students will demonstrate an understanding of creating value for their customers by using the spine of Nigel's Law to strengthen their core idea which will include creating value plans, target customer analysis, and understanding your customer's problems.
Developing An Idea	Students will demonstrate an understanding of developing an idea by conducting a competitive analysis that positions themselves ahead of their competition and assessing their financial feasibility in the marketplace.
Testing An Idea	Students will demonstrate an understanding of how to test an idea and prove its value by selecting and creating an appropriate type of Minimum Viable Product and using it to test their assumptions in order to prove value.
Presenting Your Idea to the World	Students will demonstrate an understanding of how to present their idea to customers or investors by developing a Website and a Pitch Deck.
Management Leadership and Teams	Students will demonstrate an understanding of organizational management, leadership and teams by comparing management organizational structures, and explaining leadership styles and the role of teams in an organization.
Entrepreneurial Management	Students will demonstrate an understanding of entrepreneurial management by analyzing entrepreneurial skills and characteristics, explaining steps to starting a business and economic principles, and creating a business plan.

Cryptocurrency

Intro to Blockchain and Transactions	Students will demonstrate an understanding of blockchain and transactions by describing bitcoin, blockchain, connected technologies, and applications of blockchain technologies, differentiating ledgers, explaining blockchain transactions in the economy and career opportunities in blockchain technology.
Bitcoin: What is it?	Students will demonstrate an understanding of Bitcoin by explaining the history of cryptocurrencies, Hash functions, and the shortcomings of cryptocurrency.
Bitcoin: Keys, Nodes, Wallets & Addresses	Students will demonstrate an understanding of keys, nodes, wallets, and addresses by explaining the purpose and functions of Keys, Nodes, Wallets, and Addresses.

Bitcoin: Mining & Transacting	Students will demonstrate an understanding of mining and transacting by explaining the purpose and functions of mining, how to conduct transactions, and explain the effects of the lack of regulations on cryptocurrencies.
Bitcoin: Security & Money	Students will demonstrate an understanding of the security of cryptocurrencies versus standard currency by explaining the security issues faced by cryptocurrency, how attacks affect both cryptocurrencies and standard financial institutions, and the characteristics, systems, and properties of money.
Bitcoin: Regulations, Past & Future	Students will demonstrate an understanding of the history and future of cryptocurrency and their regulation by explaining altcoins, relevant government regulations, and the future of cryptocurrencies.

Career and Technical Education

Construction

Introduction to Home Construction	Students will demonstrate an understanding of home construction by summarizing the evolution of the home construction industry, explaining the impact of the economy on various aspects of the home construction industry, assessing the associated costs, and evaluating the technological impact on the industry.
Academic Foundations and Technical Skills	Students will demonstrate and understanding of the academic foundations and technical skills recommended to pursue a career in the home construction industry by explaining the mathematical applications with appropriate formulas, the types of drawings and their associated language, the standards and specifications of technical drawing, the options available to obtain tools, and industry trends.
Project Planning, Safety and Health, Contracts and Regulations	Students will demonstrate an understanding of project planning, safety and health standards, and contracts and regulations in the home construction industry by explaining the organizational structure and components of project planning, the health and safety concerns, and the impact of documentation and contractual relationships with subcontractors.
Careers in Home Construction	Students will demonstrate an understanding of the career options in home construction and home construction business ownership by explaining the roles and responsibilities in the home construction industry, assessing the benefits and process of starting your own construction business, explaining the staffing considerations and the best use of capital, and evaluating the tools used to promote clear communication.
Green Construction: The Future of Home Construction	Students will demonstrate an understanding of green construction and the future of the home construction industry by describing green materials and the pros and cons of their use, assessing the cost benefit of using green materials, explaining the impact of technology on the industry and summarizing the impact population growth will have on the future of home construction.

National Security and the Military

Military Branches and Aviation Careers	Students will demonstrate an understanding of the military branches and aviation careers by describing the mission and history of each branch of the US military, differentiating between active and part-time duty, explaining the different career
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	paths and responsibilities in aviation, and describing the relationship between aviators and aviation support careers.
Military Careers in Logistics, Supply, Transportation, & Law	Students will demonstrate an understanding of military careers in logistics, supply, transportation, and law by differentiating between logistics, supply, and transportation careers as well as how these careers work together to aid soldiers and missions, describing the career tracks available in military law, and comparing the military and civilian legal systems.
Military Careers in Combat Operations, Technology, Engineering, & Intelligence	Students will demonstrate an understanding of military careers in combat operations, technology, engineering, and intelligence by differentiating between the types of combat operations careers in the military, comparing the training of special operations combat soldiers and traditional combat careers, and describing the skills and role of military intelligence careers and civil engineers in the military.
Military Support & Medical Careers	Students will demonstrate an understanding of military support and medical careers by describing a variety of military support careers and how they help military families and personnel, identifying the three types of medical careers in the military, and explaining the responsibilities of military-specific medical fields.
Foundations of National Security	Students will demonstrate an understanding of the foundations of National Security by explaining the definition and history of National Security.
Intelligence	Students will demonstrate an understanding intelligence apparatus of the United States by describing the different intelligence organizations and the role they play in National Security.
Disasters and National Security	Students will demonstrate an understanding of natural and man-made disasters by describing their impact on National Security and the organizations available to prevent and/or respond to disaster relief.
Terrorism and National Security	Students will demonstrate an understanding of the threats from terrorism including both foreign and domestic threats and the organizations that protect the United States.

Hospitality

Hotel Duties and Responsibilities	Students will demonstrate an understanding of the hotel duties, the responsibilities and the use of resources as they relate to the guest experience and branding of the property by examining, observing, or participating in the duties, responsibilities, and resources.
Hospitality Career Pathway and Growth Opportunities	Students will demonstrate an understanding of hotel career pathways by exploring hotel career options, the pathway to a specific hospitality career, and ongoing growth opportunities within one or more career pathways.
Hotel Ethics and Professional Standards	Students will demonstrate an understanding of incorporating hotel ethics and professional standards into guest service by examining the ethical values including fairness, sincerity, and generosity as well as the professional standards of customer success, brand loyalty, and excellence in service.

Hotel Departments Function	Students will demonstrate an understanding of the function of departments within a hotel by examining and explaining the function of each department and how they provide (or contribute to) a positive guest experience through hosting, serving, catering, and entertaining the guests.
Introduction to the Service Industry	Students will demonstrate an understanding of the service industry by analyzing career paths, discussing the importance of the industry, and identifying current trends in the industry.
Restaurant Management	Students will demonstrate an understanding of restaurant management by discussing front and back of house management and the importance of managed services and menus.
Travel and Tourism	Students will demonstrate an understanding of travel and tourism by discussing the impact of tourism, examining the factors that influence tourism, and evaluating current trends in the industry.
Event Planning	Students will demonstrate an understanding of event planning by analyzing the tasks and career paths involved with planning, marketing, and managing an event.
Hotel and Resort Management	Students will demonstrate an understanding of hotel and resort management by examining industry practices such as overbooking, identifying challenges in the cruise ship industry, and explaining the importance of departments such as housekeeping and security.
The Hospitality and Tourism Industry	Students will demonstrate an understanding of the Hospitality and Tourism Industry by identifying and explaining the features of the industry and analyzing the impact on local, national, and global economies.
Customer Service	Students will demonstrate an understanding of the impact of customer service by identifying and explaining best practices and the impact of customer service on business growth and success.
Lodging and Restaurant Management	Students will demonstrate an understanding of lodging and restaurant management by identifying and evaluating best practices in lodging and restaurant operations.
Technology in the Industry	Students will demonstrate an understanding of the role of technology in the hospitality and tourism industry by identifying and explaining best practices and analyzing the benefits of technology.
Industry Trends	Students will demonstrate an understanding of industry trends in hospitality and restaurant management by identifying and analyzing innovative ideas and practices.

Healthcare

Allied Health Assistant Roles and Responsibilities	Students will demonstrate an understanding of the roles and responsibilities of an allied health assistant by comparing the tasks associated with various assistant roles, summarizing the organizational structure and function, and explaining the importance of communication and the associated legal and ethical issues.
Staff Safety and Patient Hygiene	Students will demonstrate an understanding of staff safety and patient hygiene by explaining infectious disease containment and control measures, support and education of patients on matters of personal care and hygiene, and aspects of a safe work environment and regulatory bodies responsible for the safety of health care providers.

Facilitating Patients' Independence	Students will demonstrate an understanding of developing patients' independence by explaining the scope of services, support options, and adaptive aids to meet the patients' nutritional, digestive, and ambulative needs.
Mental Well Being	Students will demonstrate an understanding of mental health and overall well being by explaining how professionals evaluate mental health, explaining options for mental health care management, and describing the impact of long term care across the stages of life.
Medical Office Administration	Students will demonstrate an understanding of medical office administration by describing the responsibilities and explaining the procedures involved in operating a medical office practice.
Laboratory Technology, Radiology and Imaging	Students will demonstrate an understanding of laboratory technology, radiology, and imaging by describing the scope of services for careers in laboratory, radiology and imaging, explaining the techniques and tools used for obtaining samples and images, and exploring the career opportunities within the fields of laboratory technology and radiology.
Cardiology, Respiratory and Surgery	Students will demonstrate an understanding of cardiology, respiratory, and surgical skills by describing the scope of services for careers in cardiology, respiratory and surgical services, explaining the structure and function of of the cardiovascular and respiratory system, identifying assessment procedures for cardiac, respiratory or surgical care.
Pharmacy and Medication Administrations	Students will demonstrate an understanding of pharmacology and medication administration by describing the scope of services for careers in pharmacology and medication administration, performing calculations for medication dosage, and explaining the techniques and terminology associated with intravenous infusions.
Emergency Skills	Students will demonstrate an understanding of emergency skills by describing the scope of services for careers in emergency medical services, explaining the processes for determining emergency circumstances and activating the emergency medical system, and assessing emergency situations and treatment protocols.
Dental and Veterinary Skills	Students will demonstrate an understanding of dentistry and veterinary skills by describing the scope of services for careers in dentistry and veterinary science, analyze the anatomy and associated dental instruments used in dentistry, and explain the responsibilities associated with domestic animal ownership.
Emergency Medical Systems	Students will demonstrate an understanding of emergency medical systems by explaining the roles and responsibilities, the educational and legal considerations, and the importance of mental and physical self-care of individuals working within the emergency medical system.
Patient Primary and Secondary Assessment	Students will demonstrate an understanding of patient primary and secondary assessment by describing the responsibilities of a primary assessor, outlining the priorities of a primary and secondary assessment, and explaining the protocol for a secondary assessment.
Respiratory Intervention and Cardiac and Respiratory Emergencies	Students will demonstrate an understanding of respiratory intervention and cardiac and respiratory emergencies by explaining respiratory assessment protocols, respiratory and cardiac illnesses and emergencies, and respiratory and cardiac intervention procedures.

Medical Emergencies and Trauma Management	Students will demonstrate an understanding of medical emergencies and trauma management by explaining how to identify and treat a medical condition, assess and intervene in a medical emergency associated with a reaction, and treatment protocols for trauma management.
Pregnancy, Childbirth, and Pediatric Care	Students will demonstrate an understanding of pregnancy, childbirth, and pediatric care by describing the stages of pregnancy and labor, explaining the healthcare needs of a mother and newborn, and analyzing the healthcare issues associated with pediatric care.
Special populations, mental health, and crisis intervention	Students will demonstrate an understanding of special populations, people with mental illness, and crisis intervention by explaining common medical issues facing the elderly community, assessment techniques for special populations, behavioral emergencies, and crisis intervention protocols for assessment and treatment.
Mass Casualty and Advanced Trauma	Students will demonstrate an understanding of mass casualty and advanced trauma by outlining the incident command system, explaining the role and responsibilities of personnel in the emergency medical system, and explaining the assessment and treatment of traumatic injuries.
Moving and Transporting Patients and Special Situation Protocols	Students will demonstrate an understanding of the considerations and techniques for moving patients and special situations protocol by describing mechanics, tools and methods available to move a patient, identifying the considerations of a special circumstance, and analyzing the treatment protocol associated with special circumstances.
Medical Technician Duties	Students will demonstrate an understanding of executing technician duties and responsibilities by examining technician duties and responsibilities and observing or participating in their implementation for patient care.
Technician Ethics and Professional Standards	Students will demonstrate an understanding of incorporating healthcare professional standards and ethics into patient care by explaining the ethical obligations that guide a medical technician's professional conduct and compliance with professional standards.
Technician Knowledge and Skills	Students will demonstrate an understanding of the knowledge and skills required of a technician in a hospital, lab, or healthcare office by explaining the medical and scientific knowledge and the electronic and equipment skills required to support healthcare supervisors in the care of patients.
Technician Career Pathway and Growth Opportunities	Students will demonstrate an understanding of medical technician career pathways by exploring technician career options and pathways to a specific technician career, and ongoing growth opportunities within one or more career pathways.
Experience Design	Your goal is to consider what you need to learn in order to master each of the competencies you have enrolled in. As you think about what you need to do, you will begin to formulate ideas of how you can show it.
Nursing Duties and Responsibilities	Students will demonstrate an understanding of executing nursing duties and responsibilities and using nursing resources by examining the duties, responsibilities, and resources and observing or participating in the implementation of these in patient care.

Nursing Career Pathway and Growth Opportunities	Students will demonstrate an understanding of nursing career pathways by exploring nursing career options, the pathway to a specific nursing career, and ongoing growth opportunities within one or more career pathways.
Nursing Ethics and Professional Standards	Students will demonstrate an understanding of incorporating nursing ethics and professional standards into patient care by examining and explaining the importance of the Hippocratic Oath AAMA Code of Ethics, HIPAA and the three types of consent.
Nursing Patient Health Issues Detection, Treatment, and Prevention	Students will demonstrate an understanding of health issues' prevention, detection, and treatment by examining procedures and practices for addressing patient wellness through prevention, detection, and treatment.
Blockchain in Voting and Healthcare	Students will demonstrate an understanding of blockchain in voting and healthcare by describing current voting systems and medical records, evaluating how blockchain technology can be applied in securing voting and healthcare records, explaining the risks and benefits associated with using blockchain technology in elections, voting, medicine and the healthcare supply chain, and evaluating career opportunities with blockchain technology in healthcare.
History of Dentistry and the Modern Dental Team	Students will demonstrate an understanding of the history of dentistry and the modern dental team by identifying prominent historical figures and the progression of dentistry in the United States, describing the modern dental team, identifying roles of each member on the modern dental team and explaining the skills and traits needed to be successful in each role.
Dental Profession Careers	Students will demonstrate an understanding of dental profession careers by researching the roles and requirements of dental professions and identifying and differentiating terminology, instruments, dental products and technology related to each career.
Community Health and Dental Administration	Students will demonstrate an understanding of community health and dental administration by researching the roles and requirements of community dental health coordinators and dental office management positions, researching and explaining related terminology, dental insurance, ethics in dental care, and dental patient records and information management.
Path to Dental School	Students will demonstrate an understanding of the path to dental school by investigating and explaining preparation opportunities from high school through college and the dental admissions process.
General Dentistry and Dental Specialties	Students will demonstrate an understanding of general dentistry and dental specialties by comparing and contrasting items such as educational requirements, licensing, roles, challenges, and finances for general dentistry and dental specialists.

English

Creative Writing

Introduction to Creative Writing	Students will demonstrate an understanding of creative writing by analyzing author's craft including mood, theme, and voice, distinguishing among genres, understanding word choice, engaging in free writing, and brainstorming.
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Characters, Theme, and Setting	Students will demonstrate an understanding of creating characters, setting, and developing themes by evaluating one or more literary works and using strategies of points of view, reasoning, and language to create original literature.
Dialogue and Point of View	Students will demonstrate an understanding of how to create dialogue and point of view by analyzing the purpose of dialogue, examining examples of dialogue and point of view, creating dialogue, and using point of view to develop characterization, advance plot and develop the theme in an original story or screenplay.
Poetry	Students will demonstrate the ability to write poetry by analyzing how poetry presents a perspective on a subject, learning and using the key strategies of poetic structure, explaining and using literary devices, and understanding and using emphasis of detail.
Revision and Purpose	Students will demonstrate an understanding of revision and purpose by explaining the difference between revision and critique, listing approaches to revision, explaining professional expectations for writing-related careers, demonstrating the purpose and process of drafting and editing.

Expository Writing

Narrative Writing	Students will demonstrate the ability to effectively apply narrative strategies for a variety of purposes and audiences by writing a story or essay.
Writing Arguments	Students will demonstrate the ability to write persuasively for intended purpose and audience by presenting and supporting claims and reasoning with sufficient evidence.
Explanatory Writing	Students will demonstrate an understanding of explanatory writing techniques by writing an informative text that analyzes and synthesizes information from multiple sources in order to shed new light on a concept or process.
Reading Informational Sources	Students will demonstrate the ability to compare and contrast, analyze, and critique a variety of increasingly complex print and non-print informational texts (these may include texts for science, social studies, and technical subjects) by presenting a summary and interpretation supported by evidence.
Research Using Technology	Students will demonstrate the ability to investigate topics through research/inquiry by analyzing, integrating, and presenting information for a specific purpose.

Literature

Gothic Genre	Students will demonstrate an understanding of the Gothic genre by explaining common traits and themes and by describing cultural issues reflected in Gothic novels through literary analysis and writing.
Gothic Poetry	Students will demonstrate an understanding of Gothic poetry by analyzing poetic literary devices, tone, and authorial intent and by comparing them to modern adaptations.
Influence of Victorian Culture	Students will demonstrate an understanding of the influence of 19th-century Victorian cultural beliefs and scientific advancements on Gothic literature by analyzing novel content.

Gothic Short Stories	Students will demonstrate an understanding of the autobiographical element of writing by comparing and contrasting issues and identifying themes in Gothic short stories and connecting these themes to an author's life experiences.
Understanding Language and Symbolism	Students will demonstrate the ability to analyze the impact of specific word choices on meaning and tone by explaining the meaning of words and phrases as they are used in the text, including figurative and connotative meaning and symbolism.
Analyzing Multiple Interpretations	Students will demonstrate an understanding of how various versions of a story (novel or film) use narrative elements to present a theme by analyzing multiple interpretations of the same story, drama or poem.
Central Ideas of a Text	Students will demonstrate an understanding of text themes /central ideas by summarizing, identifying /explaining themes, and providing evidence from the text to support their analysis.
Author's Intent	Students will demonstrate an understanding of how to structure a text, order events, and manipulate time to create impact by evaluating the effect of these techniques on the viewer or reader.
Characterization	Students will demonstrate an understanding of how complex characters develop over the course of a text and advance the plot or develop the theme by identifying and analyzing characters' motivation, interaction, and conflict.
Understanding Word Elements	Students will demonstrate an understanding of the word elements used in medical terminology by breaking down words into prefixes, suffixes, and roots, and deciphering meanings from origins, eponyms, and abbreviations.
Key Ideas of Mythology and Folklore	Students will demonstrate an understanding of the key ideas in mythology or folklore by explicitly analyzing the details of the text as well as drawing inferences about the cultural and social significance of the myth, legend, or folktale.
Archetypes	Students will demonstrate an understanding of archetypes and their relevance in literature and culture by comparing and contrasting mythological and legendary heroes and villains.
Comparing Myths and Legends	Students will demonstrate an understanding of the similarities and differences of myths and legends from different cultures and eras by analyzing textual evidence and supporting research of secondary sources.
Modern Myths and Legends	Students will demonstrate an understanding of how myths and legends continue to shape modern-day beliefs by reflecting on the effects of urban legends, superstitions, and mythical places on cultural traditions.

Journalism

History of Journalism	Students will demonstrate an understanding of the various types of journalism and media by describing journalism throughout history and the evolution of the kinds of media used in journalism.
Laws, Ethics, and Bias	Students will demonstrate an understanding of the freedom of the press and the use of rhetoric in news reporting by describing the protections enjoyed by journalists and rhetorical tools and explaining how rhetoric is used in journalism.
Photojournalism and Freelancing	Students will demonstrate an understanding of photojournalism and freelance journalism by describing the purpose and impact of photojournalism and freelance journalism and explaining the pros and cons of freelance journalism.

Documentaries and Citizen Journalism	Students will demonstrate an understanding of documentary journalism and ethical considerations for citizen journalists by describing documentary journalism and its purposes and explaining the ethical considerations of reporting news.
Writing Journalistic Stories	Students will demonstrate an understanding of journalistic stories and the journalistic writing process by defining the different kinds of stories and using the writing process to create one.
Research and Sources	Students will demonstrate an understanding of using research and sources in journalism by conducting research, evaluating the usefulness and reliability of the information, and incorporating the research in a story.
Publication and Careers	Students will demonstrate an understanding of the publication process and careers in the field of journalism by explaining the publication process and describing the various career paths available to journalists.
Technology and Data in Journalism	Students will demonstrate an understanding of the use of technology and data in journalism by explaining the impact of technologies and data on news reporting and how they are used in news stories.

Film Study

Film Story Structures	Students will demonstrate an understanding of women's roles by using active viewing and critical analysis of films to explore plot, theme, and characterization and by writing about story structure using specific literary terms.
Feminism	Students will demonstrate an understanding of the development of feminism by responding critically to films and speeches that address the development of feminism and drawing conclusions based on historical and cultural evidence.
Social Movements	Students will demonstrate an understanding of types of oppression and discrimination by examining and discussing similarities among issues of race, gender roles, and sexual orientation.
Gender Socialization	Students will demonstrate an understanding of the process of gender socialization by analyzing the process of gender socialization as illustrated in animated fairy tales.
Challenging Social Stereotypes	Students will demonstrate an understanding of social stratification and stereotypes by identifying the roles of various media in promoting or challenging these issues.

Health and PE

Nutrition

Nutritional Needs	Students will demonstrate understanding of nutritional needs by accessing credible nutrition information and using it to plan meals, interpret food labels, and decipher their individual nutritional needs and values.
Fitness Assessment and Goal Setting	Students will demonstrate an understanding of fitness by setting and working towards specific, realistic fitness goals.
Cross Training and Nutrition	Students will demonstrate an understanding of the purpose and benefits of cross training as it relates to flexibility by examining and analyzing various cross training and nutritional practices and their benefits.

Nutrition Practices	Students will demonstrate an understanding of healthy nutrition practices by developing diet recommendations for a healthy body composition based on food nutrition and caloric needs.
Diseases and Disorders/Nutrients	Students will demonstrate an understanding of the relationships among nutrition, physiology and health by analyzing nutritional practices that reduce risks of diseases and disorders and promote health.
Energy and Non-Energy Nutrients	Students will demonstrate an understanding of energy and non-energy supplying nutrients by analyzing the impact of nutrients on overall health throughout an individual's life span.
Making Informed Nutritional Decisions	Students will demonstrate an understanding of how consumers can make informed nutritional decisions by analyzing valid information that optimizes food choices and healthy preparation to enhance personal nutrition and health outcome goals.
Nutrition and Nutritional Balance	Students will demonstrate an understanding of nutrition and nutritional balance by creating nutritional plans based on desired goals.

Wellness

Media Influence	Students will demonstrate an understanding of community and media influence on health behaviors by analyzing ways the community and media impact health related behaviors and identifying credible information to make decisions to improve health practices
Mental Health Impact	Students will demonstrate an understanding of mental health issues and their impact on overall health by researching mental health issues and analyzing mental health resolutions and preventative practices that positively improve your physical and mental health.
Health and Wellness Practices	Students will demonstrate an understanding of health and wellness practices in health care by determining the health care needs at each phase of a patient's life and what supports health care professionals can provide to aid their patients in improving overall health and wellness.
Mental Well Being	Students will demonstrate an understanding of mental health and overall well being by explaining how professionals evaluate mental health, explaining options for mental health care management, and describing the impact of long term care across the stages of life.

Physical Education

Movement Patterns	Students will demonstrate an understanding of movement patterns by connecting movement skills to movement patterns and the health benefits of physical activity.
Movement Concepts	Students will demonstrate an understanding of movement concepts by connecting movement concepts to tactics for improved performance during a physical activity.
Management of Movement	Students will demonstrate an understanding of the management of movement by explaining self management skills connected with achieving and maintaining health and performance related fitness.

Fitness Goals	Students will demonstrate an understanding of setting health related fitness goals by assessing fitness results, setting attainable goals and identifying training principles to meet goals.
Fitness Responsibility	Students will demonstrate an understanding of fitness responsibility by incorporating personal and social behaviors into their fitness goals and plans.
Strength Training Principles and Techniques	Students will demonstrate an understanding of strength training principles and safe and effective techniques by designing and implementing safe and effective strength training routines to meet various goals.
Strength Training as a Part of Overall Wellness	Students will demonstrate an understanding of the role of strength training in an overall wellness plan by identifying and analyzing how various strength training components interact with other areas of wellness.
Safety and Injury Prevention	Students will demonstrate an understanding of safety and injury prevention and response by researching and discussing personal health, safety, emergency preparedness, and response to emergencies.
Outdoor Activity Safety	Students will demonstrate an understanding of safe participation in outdoor sports by identifying the safety equipment and appropriate gear and its use for various outdoor sports.
Injuries and Treatment	Students will demonstrate an understanding of various types of injuries and their treatment by researching and explaining treatment for muscle, skeletal and soft tissue injuries.

Mathematics

Algebra

Exponential Functions	Students will demonstrate an understanding of exponential functions by applying analytical and graphical methods to simplify, solve and analyze problems involving exponents.
Inequalities	Students will demonstrate an understanding of inequalities by applying graphical and analytic methods to analyze and solve inequalities involving one or two variables.
Linear Functions	Students will demonstrate an understanding of linear functions by applying graphical and analytic methods to analyze and solve problems modeled by linear equations.
Polynomial Functions & Factoring	Students will demonstrate an understanding of polynomial functions and factoring by applying analytic methods to simplify, perform arithmetic operations, and solve problems.
Quadratic Functions	Students will demonstrate an understanding of quadratic functions by applying graphical and analytic methods to analyze and solve problems modeled by quadratic equations.
Systems of Equations	Students will demonstrate an understanding of systems of equations by applying graphical and analytic methods to analyze and solve systems of equations in two variables.
Radical Expressions	Students will demonstrate an understanding of radical expressions by simplifying radicals, adding, subtracting, multiplying and dividing radicals, simplifying expressions with rational exponents, simplifying complex numbers, and solving equations involving exponents and radicals.

Rational Expressions	Students demonstrate an understanding of rational expression by simplifying rational expressions using addition, subtraction, multiplication, and division, and solving equations involving rational expressions.
Sequences and Series	Students will demonstrate their understanding of sequences and series by using formulas to evaluate specific terms in a sequence, determine a partial sum of a sequence, determine sum of infinite series, and apply the use of sequences and series to solve non-routine problems.

Geometry

Circles	Students will demonstrate an understanding of circles by reasoning with and applying theorems about circles.
Congruence	Students will demonstrate an understanding of congruence by proving geometric theorems and creating logical arguments about various geometric figures such as lines, triangles and parallelograms.
Expressing Geometric Properties with Equations	Students will demonstrate an understanding of geometric properties by using coordinates and applying algebraic models to express and prove geometric relationships.
Right Triangles and Trigonometry	Students will demonstrate an understanding of right triangles by reasoning to solve right triangles using various techniques including Pythagorean Theorem, trigonometric ratios, and special right triangle properties.
Rigid Motion	Students will demonstrate an understanding of rigid motions by analyzing various types of rigid motions and congruence in terms of rigid motion.
Similarity	Students will demonstrate an understanding of similarity through working with dilations, similar polygons, similar triangles, and proofs of similarity and using the concepts of congruence and similarity to solve real-world problems.
Solid Geometry	Students will demonstrate an understanding of solid geometry by calculating volume of various solid figures, problem solving, and visualizing the relationship between two and three dimensional figures.

Statistics

Introduction to Statistics	Students will demonstrate an understanding of statistical concepts by examining data types, using measures of central tendency and variation, and interpreting graphs for items such as categorical trends, statistical evaluations, and quantitative measurements.
Surveys and Sample Sets	Students will demonstrate an understanding of surveys and sample sets by evaluating sampling methods, sampling bias, and sampling errors.
Experimental and Observational Studies	Students will demonstrate an understanding of experimental and observational studies by evaluating the relationship between variables, designing an experiment or an observational study to investigate variables, and analyzing the statistical data generated by the investigation of the variables.
Rules of Probability	Students will demonstrate an understanding of the rules of probability by applying the rules of probability to solve problems, evaluating independent and mutually exclusive events, and performing statistical evaluations of probability data.

Simulations	Students will demonstrate an understanding of simulated data collection by completing a simulation where they identifying a problem, evaluating the assumptions, analyzing the process, and summarizing the conclusions.
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Science

Human Anatomy

Human Systems	Students will demonstrate an understanding of the functions of the human body systems and how those systems work together by describing the various systems and analyzing how systems interact to complete various actions such as an everyday movement.
Organization and Chemistry of the Human Body	Students will demonstrate an understanding of anatomical terminology by defining and locating regions of the body while identifying the structure and function of body tissue at a cellular level.
Skeletal and Muscular System	Students will demonstrate an understanding of the skeletal and muscular systems by explaining the structure and function of bones and muscle tissue and how they work together as well as the possible disorders, diseases and injuries sustained in both systems.
Nervous System	Students will demonstrate an understanding of the nervous system by identifying the parts of the nervous system while describing their functions and identifying the diseases and disorders that affect the nervous system.
Integumentary System	Students will demonstrate an understanding of the integumentary system by describing the structure and function of the integumentary system, identifying skin alterations and analyzing common diseases, disorders and injuries of the integumentary system.
Blood/Cardiovascular System	Students will demonstrate an understanding of the blood and cardiovascular systems by differentiating between types of blood vessels, identifying the composition of blood, describing the structure and function of the heart and the path of electrical conduction as well as summarize the common diseases and disorders of both the blood and cardiovascular system.
Lymphatic and Immune System	Students will demonstrate an understanding of the lymphatic and immune systems by identifying the structure and function of the immune system, comparing the different types of immunity and how the lymphatic system works, and identifying common disorders and diseases in the immune and lymphatic systems.
The Respiratory & Digestive System	Students will demonstrate an understanding of the respiratory and digestive systems by identifying the structures and functions of each system and explaining how each one works and when they don't the possible disorders and diseases that can be associated with the symptoms within each system.
Urinary System and The Reproductive System and Genetics	Students will demonstrate an understanding of the urinary system, reproductive system and genetics by describing the organization and function of each system and discussing the role that genetics plays while identifying common disorders and diseases within both systems.
Endocrine System	Students will demonstrate an understanding of the endocrine system by explaining the organization and function of the organs within the endocrine system, explaining the importance of maintaining homeostasis, and describing the diseases and disorders that can affect the system.

Biology

Foundations of Biology	Students will demonstrate an understanding of the foundations of biology by evaluating the scientific method, explaining common theories on the origin of life on Earth and the early Earth's atmosphere, describing and building macromolecules, and explaining the chemistry of living things.
Life's Origins	Students will demonstrate an understanding of the physical, chemical, and cellular basis of life by investigating the properties of water, evaluating active and passive transport, describing the parts of a eukaryotic cell, including the structure and function of each organelle, describing cellular energy, and relating the structure and functions of various organelles to how they work together within a cell.
Cell Reproduction	Students will demonstrate an understanding of cellular reproduction by comparing and contrasting mitosis and meiosis, explaining the process of mitosis and its role in the formation of new cells, and describing DNA Replication and the production of protein molecules through transcription and translation.
Heredity and Genetics	Students will demonstrate an understanding of heredity by interpreting and predicting patterns of inheritance, describing how mutations lead to genetic variations as well as analyzing and summarizing graphs that present information about a specific gene mutation.
Earth's Diversity	Students will demonstrate an understanding of factors that affect climate, population size, and growth within an ecosystem by analyzing the interactions of organisms within an ecosystem and investigating how predation, birth rates, and death rates influence the carrying capacity of an ecosystem.
Scientific Connections	Students will demonstrate an understanding of evolution through natural selection by evaluating and describing various contributions to the scientific theory of evolution and evaluating the process of natural selection and evolutionary relationships and evidence.
Classification and Diversity	Students will demonstrate an understanding of the interrelatedness of living organisms by describing the five kingdoms, identifying the defining characteristics and roles members of each kingdom play, and creating a taxonomy chart and cladogram.

Marine Biology

Ocean Exploration	Students will demonstrate an understanding of ocean exploration by analyzing and explaining early oceanic explorations including descriptions of significant discoveries.
Oceanic Properties	Students will demonstrate an understanding of oceanic properties by observing and analyzing properties of water, including oceanic zones and the impact they have on each other and the organisms that live in each zone.
Ocean Formation and Plate Tectonics	Students will demonstrate an understanding of ocean formation and plate tectonics by researching and describing the theory of plate tectonics and connecting the theory to the formation of the oceans.
Climate and Weather	Students will demonstrate an understanding of climate and weather by examining the ocean's impact on weather and climate, the connections between weather and climate, interactions between air and water, and the impact of these interactions on marine ecosystems.

Seasonal and Successional Changes	Students will demonstrate an understanding of seasonal and successional changes within marine ecosystems by analyzing the impacts of these changes on marine ecosystems and their effects on energy systems, and examining the effects of tides, waves and currents on coastal dynamics.
Biodiversity and Natural Selection	Students will demonstrate an understanding of biodiversity and natural selection by analyzing the interactions of organisms within an ecosystem and investigating a marine population's habitat, health and adaptations that lead to diversity over time.
Ecosystems and Energy Exchange	Students will demonstrate an understanding of ecosystems and energy exchange by examining and explaining interactions between organisms within ecosystems, food webs and food chains.
Human Impact on Marine Life	Students will demonstrate an understanding of the human impact on marine life by researching and reflecting on the history of human impact on marine ecosystems, investigating the influence of the human impact, including the interrelationships between humans and the living and nonliving marine environment.
Conservation and the Future of the Ocean	Students will demonstrate an understanding of conservation and the future of the ocean by researching and examining marine conservations issues that impact the marine environment and providing examples of how to protect our current and future ocean.

Astronomy

The Universe and Techniques and Tools of the Trade: Studying the Universe	Students will demonstrate an understanding of the universe by citing evidence that supports the current astronomical theories on the formation, composition, and distribution of matter in our universe, and changes over time, and the tools and safety procedures of studying the universe, and the impact of scientific research on society.
The Earth, Moon and Sun Systems	Students will demonstrate an understanding of the Earth, Moon and Sun systems by describing how the spatial relationships between these bodies create phenomena such as day and night, moon phases and tides; explaining the effect of the moon's gravitational pull on earth; and comparing and contrasting solar and lunar eclipses.
Stars and Galaxies	Students will demonstrate an understanding of stars and galaxies by characterizing stars by their physical and chemical properties, identifying and describing the organization of different types of constellations and galaxies, classifying how a star will evolve over time, and describing the role of gravity in the formation and evolution of galaxies.
The Milky Way and Black Holes	Students will demonstrate an understanding of the Milky Way galaxy and black holes by using evidence to estimate the age, star formation, composition, and orbit of the Milky Way, describing astrometry measurements and the importance of black holes and how they are formed and detected.
Becoming a Space Professional	Students will demonstrate an understanding of careers in the space industry by describing education requirements, career paths, the role of mission control, and supporting teams for missions and space exploration.
Space Explorers	Students will demonstrate an understanding of space exploration by describing the ancient cultural uses of astronomy, the advances of modern space exploration, and American space missions.

Inner Planets and Outer Planets	Students will demonstrate an understanding of inner and outer planets by describing solar system formation and matter distribution, planet and dwarf planet characteristics and differences, weight and mass differentials across planets, and the features that are essential for life.
The Sun	Students will demonstrate an understanding of the sun by describing the regions, structure, and composition of the sun, nuclear fusion and fission, the types of solar activity that the sun generates, and solar eclipses.
Comets, Asteroids and Meteors	Students will demonstrate an understanding of comets, asteroids, and meteors by describing their composition, formation, locations, origins, and the influence they have on life.
Living and Working in Space and The Future of Space Travel	Students will demonstrate an understanding of living and working in space and space travel by describing space programs, the new space race, the international space station, the realities of life and work in space and by assessing future space travel and tourism, locations in space that are most likely to harbor life, and the technology that supports Earth science space missions.

Chemistry

Matter	Students will demonstrate an understanding of matter by explaining the nature of matter and its evaluation, assessing the properties of matter and the changes it undergoes, and differentiating pure substances from mixtures.
Atoms, Energy and Periodic Trends	Students will demonstrate an understanding of the foundations of chemistry by describing atomic theory and the nature of subatomic particles, explaining electromagnetic radiation and its relationship to quantized energy and the quantum model, and assessing the value of the periodic table.
Molecular Interactions	Students will demonstrate an understanding of elemental and molecular interactions by explaining ionic and covalent bonding and evaluating molecular structure and the associated forces.
Reactions	Students will demonstrate an understanding of chemical reactions by describing the law of conservation of mass and establishing that mass is conserved, explaining the ways in which reactants interact to form products, and assessing redox and nuclear reactions.
Stoichiometry	Students will demonstrate an understanding of Stoichiometry by describing and calculating the components required for a stoichiometric evaluation and performing stoichiometric evaluations for determining the limiting reactant and percent yield.
Phases of Matter	Students will demonstrate an understanding of the phases of matter by explaining the Kinetic Molecular Theory, evaluating phase changes, and applying the gas laws and the ideal gas law.
Energy	Students will demonstrate an understanding of energy in reactions by explaining enthalpy, assessing the factors impacting the rate of a reaction, and evaluating equilibrium and the role of Le Chateliers Principle.
Solutions	Students will demonstrate an understanding of solutions by evaluating the properties of water, calculating molarity and dilution, and assessing acids and bases.

Chemical Properties	Students will demonstrate an understanding of chemical properties by describing electrons and bonding, interpreting chemical formulas, and differentiating between acids and bases.
Chemical Reactions	Students will demonstrate an understanding of chemical reactions by classifying types of reactions, describing the energy change that occurs during a reaction, and determining how variables such as temperature affect the rate of reactions.
Nuclear Reactions, Radioactivity and Biotechnology	Students will demonstrate an understanding of nuclear reactions, radioactivity, and biotechnology by describing natural sources of radioactivity and the pros and cons of nuclear energy and biotechnology usage.

Earth Science

Earth's Atmosphere : Weather and Climate	Student will demonstrate knowledge of Earth's atmosphere by identifying its structure and composition, investigating the relationships between temperature, pressure and altitude, and analyzing data to determine weather patterns.
Fresh Water System	Student will demonstrate understanding of the fresh water system by explaining the processes that cause cycling of water in our atmosphere and on Earth and identifying the natural and human processes that impact water quality.
The Universe	Student will demonstrate understanding of the universe by investigating a variety of technologies used by astronomers and analyzing data to explain the origins and contents of the universe, including stars and galaxies.
Rocks and Minerals	Student will demonstrate understanding of rocks and minerals by examining the physical characteristics of rocks and minerals and using this information to draw conclusions about the rock's history and connection to the rock cycle.
Geologic Time	Student will demonstrate understanding of Earth's past by describing geologic time, summarizing the principles and laws by which geologist make assumptions about time, and using fossil evidence to infer events of the distant past.
Earth's Oceans	Student will demonstrate understanding of Earth's oceans by analyzing how ocean currents can affect our weather and climate as well as collecting data to illustrate how the gravitational pull of the moon causes tides.
Solar System	Student will demonstrate understanding of the solar system by explaining how physical forces have impacted our solar system both during its formation and the present day, and by observing how the temporal and spatial interrelationships amongst the distinct parts of the solar system create phenomena such as moon phases, seasons and eclipses.
Earth's Geosphere	Student will demonstrate an understanding of Earth's geosphere by describing the structure and composition of Earth's interior and explaining how Earth events, abruptly and over time, can bring about changes in Earth's surface.

Physics

Motion 1	Students will demonstrate an understanding of Newton's Laws of motion by explaining and applying each of Newton's Laws to real-life situations.
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Motion 2	Students will demonstrate an understanding of motion by describing forces and forms of energy and by solving momentum, work, and power problems.
Electricity	Students will demonstrate an understanding of electricity by describing electrical charges, currents, circuits, and electromagnetism, and assessing energy resources and the human impact on the environment.
Classifying Matter	Students will demonstrate an understanding of how to classify matter by describing the states of matter, the properties and types of matter, explaining the atomic theory, and making connections between the properties of atoms and the periodic table.
Foundations of Physics	Students will demonstrate an understanding of the foundations of physics by describing the scientific process and experimental design, evaluating graphical representations and explaining mathematical concepts used for data analysis.
Kinematics	Students will demonstrate an understanding of kinematics by analyzing motion graphs and solving problems involving speed, velocity, and acceleration.
Mechanics	Students will demonstrate an understanding of mechanics by explaining and solving problems using Newton's Laws, force diagrams and, and the law of conservation of momentum.
Energy	Students will demonstrate an understanding of how energy is stored, transferred, and conserved within a system by collecting and analyzing thermal, elastic, kinetic, and potential energy data.
Electromagnetic and Mechanical Waves	Students will demonstrate an understanding of the properties of electromagnetic and mechanical waves by analyzing and explaining wave propagation, geometrical optics, and light phenomena.
Wave-Particle Theory	Students will demonstrate an understanding of the wave-particle theory of light on a micro-scale (atomic model) and macro-scale (cosmology) by explaining and applying the theory to solve real-world problems.

Applied Sciences

Engineering

Introduction to Engineering	Students will demonstrate an understanding of the field of engineering by describing engineering, its history and its impact on social, cultural, political, and economic landscapes throughout history, and explaining how and why technological development and diffusion have rapidly increased.
Electricity and Circuits	Students will demonstrate an understanding of electricity and circuits by summarizing the science of electricity, describing formulas and the application of electricity, explaining electronic calculations and components, and diagramming circuits.
Engineering Tools and Safety	Students will demonstrate an understanding of engineering tools and safety by describing tools and equipment used by engineers, identifying and utilizing the steps to the scientific method, and explaining safety protocols, rules and regulations found in a lab or workplace.
Engineering Design Process and Application	Students will demonstrate an understanding of the engineering design process and application by identifying and describing the steps in the engineering design process and explaining and applying engineering drawings, models and prototypes.

Engineering Fields	Students will demonstrate an understanding of various fields of engineering by explaining the development of various engineering fields, researching the current systems that each design, explaining the skills required for various engineering fields, and exploring potential growth within those fields.
History and Future of STEM	Students will demonstrate an understanding of the history of science, technology, and engineering by explaining ways in which their future trajectories differ and depend on one another.
Engineering Problem Solving and Design Process	Students will demonstrate an understanding of the engineering problem solving and design processes by explaining how the various engineering disciplines utilize these processes and systems and how the processes complement each other.
Ethics and Societal Considerations for Engineering	Students will demonstrate an understanding of ethics and societal concerns relating to the engineering process and workplace procedures by discussing positive and negative aspects of controversial topics such as genetic engineering, nuclear engineering and more.
Defining an Engineering Problem and Exploring Solutions	Students will demonstrate an understanding of how to define an engineering problem and explore solutions by researching and asking questions pertaining to the problem and utilizing a systematic approach to explore possible solutions to a task.
Designing an Engineering Solution	Students will demonstrate an understanding of solution design by creating an outline of a solution to a complex engineering problem that includes a breakdown of required tasks and strengths and potential pitfalls in solution.
Building a Prototype	Students will demonstrate an understanding of the process of and purpose for building a prototype by building a prototype to explore the strengths and weaknesses of a proposed solution.
Refining an Engineering Solution: Test, Reflect, and Revise	Students will demonstrate an understanding of the process used to test and improve a product by completing the process of testing, reflecting and revising a product to better perform desired tasks.
Evaluating Our Transportation	Students will demonstrate an understanding of our current transportation systems by evaluating our current transportation modes and their limitations and disadvantages, future modes of transportation, the new technology evaluation process, and the technology adoption curve.
Flying Cars, Self-Driving Cars and Society	Students will demonstrate an understanding of flying cars and self-driving cars and their impact on society by explaining flying and autonomous vehicles, the pros and cons of flying cars, the levels of autonomous driving, driving features, technologies and algorithms, the risks and benefits of human-driven cars and self driving cars, ethical dilemmas, acceptance in society, and careers in the industry.
Drones, Hyperloop, Jetpacks	Students will demonstrate an understanding of drones, hyperloop, and jetpacks by analyzing careers in the industry, the historical developments, advances, safety risks, and impact of drones on jobs.
Supersonic Jets, Personal Rapid Transit,	Students will demonstrate an understanding of supersonic jets, personal rapid transit, and supercavitation by analyzing their function, adoption in society, the pros and cons of each, jet systems, rapid transit systems, supersonic designs, and careers in the industry.

Supercavitation	
Space Travel, Interstellar Travel	Students will demonstrate an understanding of space and interstellar travel by describing space exploration and its costs and benefits, careers in space travel, the use of rockets, challenges of reusable rockets, and by describing the feasibility, pros and cons, and theories of interstellar travel.
Introduction to Wearable Technologies	Students will demonstrate an understanding of wearable technology by examining the ethics surrounding the use of the different types of wearable devices, summarizing the history of the wearable device, explaining the components of wearable devices, and explaining the role the battery plays in a wearable device.
Designing Wearables	Students will demonstrate an understanding of product design of wearables by explaining the operating system and key technologies integrated into wearable devices, describing the development process and design considerations for wearable technologies, and describing potential career opportunities within wearable technology development.
Wearable Technologies in Healthcare, Fitness, and Sports	Students will demonstrate an understanding of wearable technologies in the healthcare, fitness, and sports industries by examining the applications used in these industries, describing the smartwatch, assessing the risks and benefits of utilizing wearable technologies in these industries, and identifying wearable technologies career opportunities within the healthcare, fitness and sports industries.
Wearable Technologies in Public Safety, Military, and Fashion	Students will demonstrate an understanding of wearable technologies in the public safety, military, and fashion industries by examining the application and use of wearable technologies within these industries, assessing the risks and benefits of wearable technologies in the military, and describing wearable technologies career opportunities in the fashion industry.
Wearable Technologies in Education and Business	Students will demonstrate an understanding of wearable technologies in education and business by examining the applications and use of wearable technologies in the fields, assessing the benefits and risks of using wearable technologies in these fields, and describing wearable technology career opportunities in business.

Aerospace

Space Travel	Students will demonstrate an understanding of the future of space travel by summarizing the history of the United States space exploration, describing the impact of politics and the international community on our space program, and explaining the advancements, goals, and plans for future space travel.
Colonizing the Moon and Mars	Students will demonstrate an understanding of the colonization of the Moon and Mars by summarizing the geographical features that make a base on the moon and mars advantageous, describing the physiological requirements for residents of the Moon or Mars, the evidence of Mars' ability to sustain life, and the infrastructure required to support life, and assessing the political implications, future benefits, and potential impact of colonizing the Moon and Mars.
Space Resources	Students will demonstrate an understanding of the space resources by describing the asteroid mining industry, summarizing the expansion of space exploration, and assessing current travel capabilities and the ability to meet future needs.

Space as a Battle Ground	Students will demonstrate an understanding of space as a battleground by summarizing the Outer Space Treaty and the existing legislation to prevent military conflicts in space, describing the plans to develop a Space Force military branch, evaluating the efforts of other governments to build capabilities for waging war and the impact of potential conflict, and assessing the use of robots in space for military and exploratory purposes.
Spacecraft Design and Interstellar Travel	Students will demonstrate an understanding of spacecraft design and interstellar travel by summarizing the current spacecraft design and technology considerations, comparing historical and current spacecraft design to future design, explaining the motivation behind interstellar travel, and describing the theories that would allow for interstellar travel.

Robotics

Robotics Engineering	Students will demonstrate an understanding of engineering concepts by using mechanical and electrical engineering concepts and techniques to design and build robots to complete various challenges.
Programming	Students will demonstrate an understanding of Python programming by writing, uploading, and testing Python code to have a robot accomplish various tasks.
Problem Solving	Students will demonstrate an understanding of problem solving by describing problem identification, engineering tasks, and identifying solutions.
Robot Testing	Students will demonstrate an understanding of robot testing by designing a field test, testing the robot, recording findings, and making necessary adjustments to the robot.
The Robotics Industry	Students will demonstrate an understanding of the robotics industry by explaining the basics of robotics; describing careers, educational requirements, and skills in robotics and engineering; and explaining safety standards and procedures.
Machines and Modeling	Students will demonstrate an understanding of machines and modeling by explaining simple machines, tools and modeling techniques, the process of sketches to prototypes, and mechanical systems and energy.
Robotic Motion, Mechanics and Physics	Students will demonstrate an understanding of robotic motion, mechanics and physics by describing the elements and applications of robotic mechanisms, dynamics, linear and angular kinematics, and inertia and momentum.
Engineering Design and Robotics Systems	Students will demonstrate an understanding of engineering design and robotics systems by describing and applying the engineering design process, explaining the process of creating prototypes, and explaining the importance of teamwork and critical thinking skills in engineering and robotics.

Forensic Science

Arson and Explosives Evidence	Student will discuss the strategies and prove the difficulties associated with arson- and explosion-based crime scene investigations, evidence collection, and analysis as well as compare the various incendiary materials and devices.
Collecting and Analyzing	Student will differentiate between the various types and categories of physical evidence, illustrate the methodologies for evidence analysis, and apprise how their analysis can influence criminal investigations.

Physical Evidence	
Firearms and Tool Marks	Student will connect the collection and analysis of firearm and tool mark evidence to an investigators capacity to draw conclusions about the origin of evidence and its role in the commission of a crime.
Forensic Science and Crime Scene Analysis	Student will demonstrate a capacity to assess a crime scene for critical evidence, apply the appropriate procedures for recognition, collection, cataloging, and preservation of evidence, and describe and illustrate the specialized disciplines in forensics and their application to the field of forensic science.
Chemical Evidence: Collection and Testing	Students will explain how forensic scientists can capitalize on the atomic composition of evidence in order to enable analysis; students will describe instrumentation necessary for evidence testing.
Digital Evidence and Cybersecurity	Students will discuss the strategies used by cybercriminals to commit crime and describe how forensic scientists uncover and investigate such crimes now and how predicted advancements will lead to new investigative techniques and testing.
Document Examination and Evaluation	Students will discuss how suspect documents are evaluated and verified and will demonstrate an understanding of testing strategies and tools utilized in record examination
Drugs and Toxins: Evidence Collection and Testing	Students will differentiate between types of recreational drugs and toxins and discuss their effects on a human body. Further, students will explain analysis of evidence, and collection and testing strategies to screen for these forms of evidence.

Biotechnology

Ancient Biotechnology	Students will demonstrate an understanding of Ancient Biotechnology by defining the term and explaining how the shift to agriculture in Neolithic Period sparked humanity's first biotechnological innovations.
Classical Biotechnology	Students will demonstrate an understanding of classical biotechnology by describing early biotechnological innovations and explaining how key historical events spurred growth in the field.
Biotechnology Regulation	Students will demonstrate an understanding of biotechnology regulation by identifying major regulatory agencies in the United States and explaining how and why these agencies hold a balance between regulation and innovation in biotech product development.
Biotechnology Today	Students will demonstrate an understanding of biotechnology today by describing recent major advances in 3 key areas of Biotechnology: medicine, agriculture, and industry and discussing the social and economic impacts of these innovations.

Veterinary Science

Exotic animal medicine	The student will demonstrate understanding of the unique challenges and opportunities of exotic animal medicine by comparing avian and reptilian diseases and treatments, and by analyzing considerations required by captivity in zoos and animal parks.
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Holistic veterinary medicine	The student will demonstrate understanding of non-traditional veterinary methods by examining a variety of holistic techniques and approaches used to treat common physical disorders of domestic animals and livestock, and identifying potential benefits and disadvantages of these treatments.
Large and small animal medicine	The student will demonstrate understanding of common diseases, disorders, and treatments of companion animals and livestock by comparing basic physiology, investigating impacts on humans and food supply, and analyzing causes, solutions, and prevention methods.
Origin and application of veterinary science	The student will demonstrate understanding of the history, evolution, and scope of veterinary science by differentiating between historical, current, and potential applications of the science, as well as identifying the education and skills required to practice veterinary medicine.
Poisoning, toxicology, and parasitology	The student will demonstrate an understanding of toxicology and parasitology by a comparative analysis of transmission or access mechanisms, symptoms presented, treatments prescribed, and prevention methods.
Zoonotic diseases	The student will demonstrate understanding of the threat of diseases transferred between animals and humans by identifying potential sources, transmission mechanisms, and historical evidence, and assessing modern research efforts, eradication techniques, and preventative measures.

Social Sciences

Civics

Rights and Responsibilities of Citizenship	Student will demonstrate an understanding of the rights and responsibilities of citizenship by investigating the political processes and citizen involvement in local, state and national governments.
The Nature and Purpose of Government	Student will demonstrate an understanding of the nature and purpose of government and the fundamental ideals of the United States and New Hampshire governments by analyzing political philosophies outlined in the United States and New Hampshire constitutions and exploring how these are put into practice.
Structure and Function of Government	Students will demonstrate an understanding of the organization and operation of the United States and New Hampshire government at all levels including the legislative, executive, and judicial branches by analyzing relevant documents.
Foreign Policy	Students will demonstrate an understanding of the United States' role in world affairs by assessing foreign policy.

Criminal Justice and Law

Overview and History of the Criminal Justice System	Students will demonstrate an understanding of the criminal justice system and its history by describing an overview of the criminal justice system, the main parts of the criminal justice system, early crime and punishment, and modern crime and punishment.
Law and Crimes	Students will demonstrate an understanding of laws and crimes by describing types of laws and the jurisdiction of law, explaining how laws are made, and summarizing constitutional amendments, and elements and classifications of crimes.
Careers and the Courtroom	Students will demonstrate an understanding of criminal justice careers and the courtroom by identifying and describing career opportunities in the criminal justice

	system, the skills and duties to excel in these career opportunities, the courtroom and trial processes, and the roles of people involved in trial.
The Juvenile Justice System and Correctional Facilities	Students will demonstrate an understanding of the juvenile justice system and correctional facilities by describing the juvenile justice system, programs and agencies in juvenile justice, correctional systems, types of prisons and programs, and the responsibilities of correctional officers.
People Skills in Criminal Justice	Students will demonstrate an understanding of people skills in criminal justice by recognizing and describing personal traits that will help them succeed, applying strategies for conflict resolution and working well with others, and explaining employability skills.
Introduction to Criminology	Students will demonstrate an understanding of the foundations of the field of criminology by analyzing areas such as criminologists and criminalists.
Crime Theories	Students will demonstrate an understanding of the various crime theories by analyzing theories such as biological, psychological, social disorganization theory, strain theory, conflict theories, and radical criminology theories.
Crime Classifications	Students will demonstrate an understanding of the various categories of crime by analyzing crimes such as homicide, larceny, burglary, white-collar corporate and public order crimes.
Criminal Justice System	Students will demonstrate an understanding of the criminal justice system by analyzing processes such as its history, its goals, the stages of the criminal case process, the state and federal courts, and the death penalty.
Correctional System	Students will demonstrate an understanding of the correctional system by analyzing its components such as its history, its costs to society, punishments, probation, and alternative sanctions.
The Process and Ethics of Law	Students will demonstrate an understanding of the lawmaking process and ethical considerations by examining the elements of the lawmaking process in the US and International Organizations, thereby analyzing the connections between the legal system, ethics and human rights.
The Criminal Justice System	Students will demonstrate an understanding of the multi-layered US criminal justice system by examining nuances and categories in the study of criminology, as well as, analyzing scenarios that highlight the factors associated with criminal behavior in society.
Consumer Law and Elements of Tort Law	Students will demonstrate an understanding of the validity, use and elements of tort law by evaluating and drawing conclusions of real life scenarios related to consumer law, consumerism and the changing landscape of economic activity.
Bill of Rights	Students will demonstrate an understanding of the history of individual rights in the United States by analyzing the Bill of Rights, its history and purpose and landmark cases associated with court interpretation.

Early Childhood Development

Childcare Roles, Obligations and Environment	Students will demonstrate an understanding of childcare roles, obligations and environment by explaining what early childhood education is, different family structures, safety needs, obligations that provider and parents must meet, and describing cultural differences and inclusion
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Regulations and Strategies	Students will demonstrate an understanding of childcare regulations and strategies by explaining the legal requirements for meals, planning menus, positive mealtime strategies, and by describing the types and regulations of childcare facilities, signs and symptoms of child abuse, and how to disclose abuse.
Pregnancy, Childbirth and Early Childhood Development	Students will demonstrate an understanding of pregnancy, childbirth and early childhood development by explaining the stages of pregnancy, trimester characteristics, healthy prenatal care, and the stages of birth, and by describing the stages of early childhood development, benefits of breastfeeding, developmental milestones, and developmental delays.
Special Needs and Inclusivity	Students will demonstrate an understanding of special needs, and inclusivity by explaining special education history, infant and toddler needs, and inclusive classroom functions.
Setting Up Childcare Programs	Students will demonstrate an understanding of setting up childcare programs by describing the responsibilities of an early childhood entrepreneur including the legal business structure, business finances, marketing, advertising, and growth strategies.
Childhood Cognitive and Behavioral Development	Students will demonstrate an understanding of childhood cognitive and behavioral development by describing cognitive growth and development of play behaviors, types, benefits and integrating play, types of guidance for children, and by explaining when to intervene, strategies to create good behavior and self-esteem.
Observation, Communication and Record Keeping	Students will demonstrate an understanding of observation, communication and record keeping by describing the use of observations of children to improve care, developmentally appropriate communication, maintaining open communication with parents, and proper record keeping in a childcare setting.
Early Childhood Math and Language Literacy Skills	Students will demonstrate an understanding of early childhood math and language literacy skills by describing the development and use of language in young children, pre-literacy and pre-math skills, math skills development, and creating a supportive learning environment.
Early Childhood Curriculum and Methodology	Students will demonstrate an understanding of early childhood curriculum and methodology by describing components of pedagogy and popular curriculum models, explaining contemporary issues, and discussing age-appropriate use of technology, technology policies and tools for teachers.
The World of Parenting	Student will demonstrate the ability to describe the qualities that make a person a good candidate for parenthood by defining what it means to be a parent, examining the responsibilities, and analyzing parenting styles.
Self-Esteem and Child Development	Student will demonstrate the ability to promote the mental and emotional health of children by identifying characteristics of positive self-esteem, analyzing how various influences affect self-esteem, and explaining how parents can advocate for good social and academic self esteem.
Parent-Child Relationships	Students will demonstrate the ability to apply effective communication skills to positive parenting strategies by illustrating how communication can be used to support language development, build healthy parent-child relationships and work through difficult social situations.
Positive Parenting and Environments for Children	Student will demonstrate the ability to design a protective and nurturing environment for children at various ages by using positive parenting strategies to solve dilemmas, analyzing the causes and effects of stress in a parent's life, and identifying the risk factors and types of abuse.

Education

United States History of Education	Students will demonstrate an understanding of the history of education in the United States by describing the history and development of education, the impact of technology on education, and present-day structure of government as it pertains to education.
Distance, Blended, Personalized, and Adaptive Education	Students will demonstrate an understanding of different learning models by summarizing the history and software requirements of distance learning, differentiating between distance learning in higher ed, K12, and face-to-face environments, explaining blended, personalized, and adaptive learning, and comparing presentation methods in each model.
Technology in the Classroom	Students will demonstrate an understanding of the future of technology in the classroom by describing the applications, impact, benefits, and limitations of Augmented Reality (AR), Virtual Reality (VR), robotics, and wearable technology in education and summarizing the career opportunities and pathways within AR, VR, and robotics.
Career Options and Future Application	Students will demonstrate an understanding of career options and future application of education by describing education requirements and career paths in a brick-and-mortar institution and how they differ from higher education, the impact of advances in technology on both brick and mortar and distance learning, the global impact of distance learning, and the impact of various learning modalities on the future of education.

Anthropology

What is Anthropology?	Students will demonstrate an understanding of anthropology by examining and explaining what an anthropologist does and the variety of subfields of anthropology.
Theory of Human Evolution	Students will demonstrate an understanding of the theory of human evolution by explaining the theory of evolution, the evolution process and describing the traits of our current species known as Homo Sapiens.
Looking at Culture in Societies	Students will demonstrate an understanding of a variety of societies studied by anthropologists by examining the defining characteristics of a variety of societies, such as hunter-gathers, nomads, pastorals, urban societies, industrial societies, and post-industrial societies.
Language, Environment and Culture	Students will demonstrate an understanding of the relationship between language, environment, and culture by comparing cultural similarities in language and describing ways the environment can affect culture.
Archaeology	Students will demonstrate an understanding of the process of archaeology by explaining the purpose of an archaeological record, the steps to discovering archaeological records at sites, and the variety of techniques used to analyze archaeological records.
Religion and Family in Culture	Students will demonstrate an understanding of the role of religion and family in culture by explaining the similarities and differences of a variety of religions and family practices in various cultures.

Enculturation	Students will demonstrate an understanding of how people are formed through enculturation by explaining how family, mainstream media and history have affected culture throughout the years.
Cultures in Modern Societies	Students will demonstrate an understanding of how cultures change as the world develops by explaining the role that genocide, human rights, and democracy played in developing today's world.

Sociology

Social Stratification and Society	Students will gain an understanding of Social Construction and Social Stratification by examining their role in patterns of group relations.
Social Structure and Status within Society	Students will demonstrate an understanding of the role of social structure and status within society, group interactions and individual lives and how these impact group behavior and deviance.
The Impact of Culture on Individuals, Groups, and Social Structure	Students will demonstrate an understanding of the role of culture within societies and how culture impacts groups and individual development, beliefs and behavior.
The Understanding and History of Sociology	Student will demonstrate an understanding of the principles and theories that form the foundation of sociological perspectives and how these have evolved over time.
Social Problems and Mass Media	Students will demonstrate an understanding of social problems and the impact of mass media by analyzing the connections between mass media and social problems in society.
Wealth and Poverty in the United States	Students will demonstrate an understanding of wealth and poverty in the United States by examining wealth discrepancies and the causes of poverty and crime, and by developing and defending opinions on theories and solutions to these social problems.
Institutional Social Problems	Students will demonstrate an understanding of institutional social problems, such as health care and education, by analyzing the different health care and educational dilemmas in the United States and around the world.
Global Social Problems	Students will demonstrate an understanding of global social problems, such as overpopulation and war, by examining and analyzing the causes and solutions to these issues.
Individual and Group Identity Issues	Students will demonstrate an understanding of the elements of social problems related to individual and groups identities in modern society by critiquing roles of individuality, community, and problematic groups.
Global Social Issues	Students will demonstrate an understanding of sources of societal conflict and inequity by analyzing consumption, consumerism, and globalization from a social perspective.
Homelessness	Students will demonstrate an understanding of the causes and the societal impact of homelessness by investigating groups that experience homelessness and the impact of homelessness on the entire community.
Health and Addiction Issues	Students will demonstrate an understanding of threats to individual health in modern society by investigating the causes of obesity, and drug and alcohol abuse, and analyzing their impact on society as a whole.

Psychology

Theories and Personality	Students will demonstrate an understanding of different theories surrounding how to study and explain human behavior by identifying the role psychology plays in benefiting society and improving people's lives.
Developmental Psychology	Students will demonstrate the ability to analyze human growth and development by using developmental theories to explain the physical, cognitive, and social changes that occur throughout the life cycle.
Learning and Memory	Students will demonstrate the ability to apply principles of learning and memory by connecting these techniques to personal experiences and education.
Thinking and Language	Students will demonstrate the ability to analyze the relationship between the thinking process and language by examining the process of acquiring language and how thought and language are connected, as well as exploring the decision-making process and the impact of stress.
Psychological Disorders	Student will demonstrate an understanding of psychological disorders by investigating various forms of abnormal behavior, possible causes of those abnormal behaviors and therapeutic strategies.

Humanities

Philosophy

Modern Philosophy	Students will analyze the themes of Modern Philosophy.
Philosophy of the Twentieth Century	Students will make connections between Post-Modern Philosophy and the themes of previous schools of philosophical thought.
The Foundation and Origin of Philosophy	Students will make connections between the origins of philosophy and the foundations of philosophical study.
The Philosophy of Happiness	Students will analyze the themes of Hellenistic Philosophy.
The Philosophy of the Middle Ages	Students will connect the themes of Greek Philosophy to Medieval Philosophy.

World History

Agriculture and Geography	The student will demonstrate an understanding of the impact of Agriculture on human society by analyzing the development of agriculture over time.
Political Geography	The student will demonstrate an understanding of Political Geography by analyzing the differences between states and nations and identifying how cooperation and conflict shape nation-states and culture.
Population Trends	The Student will demonstrate an understanding of world population trends in both numbers and patterns by analyzing geographical population distribution and potential implications of these trends.
Religious Ideals	Students will demonstrate an understanding of religious ideals by describing the diversity of values, beliefs, and practices of individuals and groups and analyzing their impact over time.
The Evolution of Feudalism to a Money Economy	Students will demonstrate an understanding of the evolution from feudalism to a money economy by explaining the changing forms of production and the distribution and consumption of goods in Europe and Asia.

Ancient Empires	Students will demonstrate an understanding of ancient empires by describing the interactions of ancient people and governments over time and comparing and contrasting ancient empires.
The Birth of New Ideas	Students will demonstrate an understanding of the birth of new ideas by analyzing events, ideas, and issues that had a lasting impact during eras such as the Renaissance, Age of Discovery, Reformation, Scientific Revolution, or Enlightenment.
World Political Tensions	Students will demonstrate an understanding of the causes and worldwide consequences of conflicts by analyzing the events, ideas, and issues that had a lasting impact during world events such as the Cold War.
The World at War	Students will demonstrate an understanding of the world at war by describing conflicts such as WWI and WWII, explaining how the interactions of peoples and governments can lead to these conflicts, and evaluating how military conflicts impact global transformation.
Political Foundations and Development	Students will demonstrate an understanding of political foundations and developments by describing major events, ideas, and issues pertaining to the history of governance and evaluating the impact.

US History

Challenges to the Nation	Students will demonstrate an understanding of the impact of political, social, and economic events on the nation by analyzing the political, social, and economic responses to government actions during events such as the Civil War, during the Civil War, Reconstruction Era, and Westward Expansion.
Economic Expansion and Social Reform	Students will demonstrate an understanding of the social impact of economic expansion by analyzing and explaining the causes of the Second Industrial Revolution and the social reform movements of the 19th century.
New Hampshire's Role in International Diplomacy	Students will demonstrate an understanding of New Hampshire's role in international diplomacy by examining events such as the Bretton Woods Economic Conference, or the Treaty of Portsmouth in the settlement of the Russo-Japanese War.
Entering the World Stage	Students will demonstrate an understanding of how world events can impact the domestic and foreign policy of our nation by analyzing the U.S. response to WWI and explaining the impact this had on both domestic and foreign policy.
Intellectual and Artistic Expression	Students will demonstrate an understanding of how cultural and artistic trends reflect and influence ideas and values by examining the relationship between these during specific time periods such as the 1920's and the Great Depression.
Foreign Policy - From Isolation to Global Dominance	Students will demonstrate an understanding of the events, actions, and policies of our nation in relation to other peoples and governments over time by analyzing how U.S. foreign policy has varied from periods of isolationism, to international involvement, to exerting power and dominance at different time periods, such as WWII.
Threats to Democracy	Students will demonstrate an understanding of the impact of the changing relationship between the United States and other nations by analyzing and explaining the effects of foreign and domestic policy on U.S. citizens and other nations during times in our history such as the Cold War era.

Social and Cultural Change	Students will demonstrate an understanding of the advancement of rights for all Americans by examining people, events, and government actions taken during the Civil Rights Era and the impact these actions had on minority groups.
The Modern Era	Students will demonstrate an understanding of the issues that shaped the modern era by analyzing events such as globalization, economic and environmental concerns, the impact of technological advancements, political issues, terrorism and human rights.
The Evolution of Slavery in America	Students will demonstrate an understanding of how slavery developed and changed in the colonies from British rule to American independence by analyzing the geography and economy of the colonies, Revolutionary activity in the colonies, the contradictions of the principles of the Patriot movement, and the impact on the anti-slavery movement.
Slavery Expansion and Debate	Students will demonstrate an understanding of the expansion of slavery in America and the widening disparity of Americans for and against slavery by analyzing the booming economy and the culture of slave life in the South in contrast to the emergence of the abolitionist movement and the expansion of free black communities in the North.
Tension Over Slavery	Students will demonstrate an understanding of the growing tension between the North and the South by analyzing the social, economic and political causes of the Civil War in addition to the role African Americans played in the War.
Post-War Reconstruction	Students will demonstrate an understanding of the post-war Reconstruction Era by critiquing the Reconstruction Acts, the political and social reforms enacted to support the now free slaves and the reaction of the South to the end of the war and the 13th and 14th Amendments to the Constitution.
Jim Crow Era	Students will demonstrate an understanding of the failure of the federal government to protect the African American community in the Jim Crow era by examining the consequences of the laws passed by state and federal governments leading to an increase in racial violence and the migration of African Americans out of the South and into the North.
Social and Cultural Progress at the Turn of the Century	Students will demonstrate an understanding of the cultural and social progress of African Americans at the turn of the century by analyzing the people, organizations, and events that influenced change in a time of continuing White Supremacy.

Religion

World Religions	Students will demonstrate an understanding of the characteristics that religions have in common and the functions of religion for society by analyzing the development and impact of the predominant world religions.
Judaism, Christianity, and Islam	Students will demonstrate an understanding of the three main monotheistic religions of Judaism, Christianity, and Islam by analyzing and comparing the history, divisions, texts and practices of these three religions.
Far East Religions	Students will demonstrate an understanding of the Far East religions of Hinduism, Buddhism, Confucianism, Shintoism, and Taoism by analyzing the origins, beliefs, texts, and practices of these religions.

Religion in the 21st Century	Student will demonstrate an understanding of the impact of religion on culture in the 21st century by examining the relationship between religion and various cultural characteristics and considering the role of religion in the future.
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Languages

Spanish

Introductions, pronunciation, cognates and adjectives	Students will demonstrate an understanding of basic greetings and introductions, pronunciation, cognates, and personality and physical traits by communicating in written and spoken Spanish on topics such as basic information about the self.
Articles, time, dates, AR verbs	Students will demonstrate an understanding of definite and indefinite articles, time, dates, and the basics of AR verb conjugations by communicating in written and spoken Spanish on topics such as schools and schedules.
Verb Conjugation, numbers, question words	Students will demonstrate an understanding of the process of conjugating AR, ER, and IR verbs with singular subject pronouns, numbers through 1000, and question words by communicating in written and spoken Spanish on topics such as food and meal customs in the Spanish speaking world.
Irregular verbs hay, ser, tener, ir, estar and irregular yo verbs	Students will demonstrate an understanding of the use of irregular verbs including HAY, SER, TENER, IR, ESTAR and verbs with irregular conjugations in the 'yo' form by communicating in written and spoken Spanish on topics such as the home and household chores.
GUSTAR, plural verb conjugations, possessive adjectives	Students will demonstrate an understanding of GUSTAR, verb conjugations with plural subject pronouns, and possessive and descriptive adjectives by communicating in written and spoken Spanish on topics such as family, nationalities, occupations.
Stem-changing verbs, weather, adverbs of frequency	Students will demonstrate an understanding of stem-changing verbs, weather expressions and seasons, and adverbs of frequency by communicating in written and spoken Spanish on topics such as pastimes and activities.
SER vs. ESTAR, SABER vs. CONOCER, future with IR	Students will demonstrate an understanding of how and when to use SER vs. ESTAR, SABER vs. CONOCER, and the future with IR + a + infinitive by communicating in written and spoken Spanish on topics such as descriptions and attractions of cities and the countryside.
Regular, Irregular, and Reflexive verbs in the present tense	Students will demonstrate an understanding of reflexive, regular and irregular verbs in the present tense, including "Yo-go" verbs and stem-changers by using these to communicate in written and spoken Spanish on topics such as body parts, clothing, and daily routines.
Object Pronouns, Tener que, Acabar de, and Estar + Prepositions	Students will demonstrate an understanding of direct and indirect object pronouns, the tener que and acabar de structures, and comparatives by using these to communicate in written and spoken Spanish on topics such as the community, parts of a car, errands, directions, careers, and volunteering.
Preterite Tense	Students will demonstrate an understanding of how to conjugate and when to use the preterite tense with regular and irregular verbs including ser, estar, tener, hacer, and ir by using these to communicate in written and spoken Spanish on topics such as illness, injuries, and visits to medical offices.

Commands	Students will demonstrate an understanding of how to form and when to use formal and informal, singular and plural, and affirmative and negative commands by using these to communicate in written and spoken Spanish on topics such as health and how to stay healthy.
Imperfect Tense, Demonstrative and Superlative Adjectives	Students will demonstrate an understanding of how to conjugate and when to use the imperfect tense (including irregulars) as well as demonstrative and superlative adjectives by using these to communicate in written and spoken Spanish on topics such as childhood stories, music toys, and games in the Spanish speaking world.
Imperfect vs. Preterite	Students will demonstrate an understanding of the imperfect vs. preterite tenses, including when to use each, stem-changing verbs in the preterite, and verbs that change meaning in the preterite and imperfect by using these to communicate in written and spoken Spanish on topics such as vacations.
Future tense and Saber vs. Conocer	Students will demonstrate an understanding of when and how to use the future tense as well as the use of saber vs. conocer by using these to communicate in written and spoken Spanish on topics such as natural disasters and environmental protection.
Present and Past Progressive	Students will demonstrate an understanding of when and how to use the present and past progressive tenses by using these to communicate in written and spoken Spanish on topics such as endangered, wild, and ocean animals.
Preterit vs Imperfect, Saber vs. Conocer, Relative Pronouns	Students will demonstrate an understanding of the preterit vs. imperfect including changes in the preterit, SABER vs. CONOCER, and relative pronouns by communicating in written and spoken Spanish on topics related to Spanish speaking cultural groups in the US such as community, immigration, jobs, and government.
Future, Ser and Estar, Present Progressive and Reflexive Actions	Students will demonstrate an understanding of how to discuss events in the future, SER and ESTAR, the present progressive tense, and reciprocal and reflexive actions by communicating in written and spoken Spanish on topics related to travel such as safe travel and planning a trip.
Formal and Informal Commands, Por vs Para	Students will demonstrate an understanding of formal and informal commands and por vs. para by communicating in written and spoken Spanish on topics related to travel such as being a global citizen and global etiquette.
Impersonal and Passive Voices with SE, Present and Future Perfect Tenses, GUSTAR-like verbs	Students will demonstrate an understanding of the impersonal and passive voices with SE, the present and future perfect tenses, and GUSTAR-like verbs by communicating in written and spoken Spanish on topics related to lifestyles and celebrations in Spanish speaking countries such as transportation, hospitality, and idioms and slang.
Subjunctive Mood, Conditional Tense, Prepositions	Students will demonstrate an understanding of the subjunctive mood with impersonal expressions, wishes, requests, desires, doubts; the conditional tense; and prepositions of location by communicating in written and spoken Spanish on topics related to art and artists from the Spanish speaking world such as careers related to art, artwork, forms of art, and personal experiences.
Subjunctive vs. Indicative, Passive Voice	Students will demonstrate an understanding of the subjunctive vs. indicative moods, including irregular conjugations and use with adverbial clauses, and the passive voice with SER and the past participle by communicating in written and

	spoken Spanish on topics related to social issues in Mexico and Central America such as Mexican and Central American literature, authors, and themes.
Subjunctive and Conditional Tense	Students will demonstrate an understanding of how to use the subjunctive with impersonal expressions, phrases of volition, fear and doubt, and conjunctions; and the conditional tense by communicating in written and spoken Spanish on topics related to global health issues such as health and nutrition, environmental challenges, and human rights.
Subjunctive with Irregular Verbs, Present Perfect, and actions not yet completed, Future Perfect	Students will demonstrate an understanding of irregular verbs in the subjunctive, the present perfect subjunctive, and how the subjunctive is used with actions not yet completed as well as the future perfect by communicating in written and spoken Spanish on topics related to global inventions such as current research and future technologies, modern communication, and global social media influence.
Possessive Pronouns, Embellished Adjectives, Nouns formed from Verbs	Students will demonstrate an understanding of the possessive pronouns, embellished adjectives, and nouns formed from verbs by communicating in written and spoken Spanish on topics related to relationships across cultures such as roles, values, family structures and childhood/adolescence in various cultures.
Accidental SE, Double Object Pronouns, Imperfect and Past Perfect Subjunctive	Students will demonstrate an understanding of how to use the accidental SE, double object pronouns in a simple to complex sentences, and the subjunctive with the imperfect and past perfect by communicating in written and spoken Spanish on topics related to contemporary life across cultures such as celebrated events, international travel, and post-secondary education.
Demonstrative Adjectives & Pronouns, Expressions of Time, Passive Voice	Students will demonstrate an understanding of how to use demonstrative adjectives and pronouns in simple and complex sentences, expressions of time with the past tense, and the passive voice by communicating in written and spoken Spanish on topics related to aspects of beauty across cultures such as perceptions of beauty in architecture, visual arts, literature, and performing arts.

Chinese

Pronouns and Sentence Structure	Students will demonstrate an understanding of pronouns and basic sentence structure in Chinese by communicating in written and spoken Chinese on topics such as geographical place of origin and personal information about self and others.
Use of 有 and 还有	Students will demonstrate an understanding of the Chinese verb 有 (to have) and the conjunctive adverb 还有 (and also have) by communicating in written and spoken Chinese on topics such as family, age, and numbers to 100.
Interrogative Adjectives and Prepositions	Students will demonstrate an understanding of Chinese interrogative adjectives who, what, and where and the use of the preposition 在 (in, at, on) by communicating in written and spoken Chinese on topics such as friends, pets, addresses, and numbers to 1000.
Time and Date	Students will demonstrate an understanding of time, dates, and sentence structure when referencing time by communicating in written and spoken Chinese on topics such as the date, time, daily schedule, and school.

Use of 会 and 还是 and Measure Words	Students will demonstrate an understanding of the use of the verb 会 (be able to, can), 还是 to form alternative questions and express “had better,” and measure words by communicating in written and spoken Chinese on topics such as food, clothing, likes, and dislikes.
Verb + 不 + verb and 吗 Questions and Preposition 向	Students will demonstrate an understanding of the verb + 不 + verb and 吗 question (yes/no) forms and the preposition 向 (toward) by communicating in written and spoken Chinese on topics such as hobbies, sports, and directions.
Superlatives and Use of 过	Students will demonstrate an understanding of superlative formation and the use of 过 to express that an action or event has been experienced by communicating in written and spoken Chinese on topics such as arts, entertainment, and colors.
Two Uses of 的	Students will demonstrate an understanding of two uses of 的 to form possession and adjectives by communicating in written and spoken Chinese on topics such as household appliances, ownership, and price.
Schedules, Conjunctive Adverbs, and Ordinal Numbers	Students will demonstrate an understanding of conjunctive adverbs to connect events and ordinal numbers by communicating in written and spoken Chinese on topics such as the American and Chinese school day.
Capability (能, 会), Suggestions, Present Progressive (正在)	Students will demonstrate an understanding of the uses and differences between 能 and 会 to express capability and the use of 正在 to describe an event in progress by communicating in written and spoken Chinese on topics such as sports, health, fitness, and personal opinions and suggestions.
Time Adverbs and Ability	Students will demonstrate an understanding of time adverbs to describe the present, past, and future and the verbs 懂, 会, 擅长 · 精通 to express ability and skill by communicating in written and spoken Chinese on topics such as careers and personal interests. Students will demonstrate an understanding of time adverbs to describe the present, past, and future and the verbs.
Making plans and directions	Students will demonstrate an understanding of asking for and giving help, clarification, and directions by communicating in written and spoken Chinese on topics such as making plans, travel in China, and Chinese geography.
Mood and Simile	Students will demonstrate an understanding of Chinese simile formation using 如, 像。。。一样 · and 仿佛 and the use of use modal particles to express agreement, doubt, and mood by communicating in written and spoken Chinese on topics such as modern and traditional Chinese architecture and gardens.
Sequencing and Qualifiers	Students will demonstrate an understanding of sequencing of events in Chinese and qualifiers (太, 可, 够, 非常, 十分, 很, 真) to express degree by communicating in written and spoken Chinese on topics such as Chinese and Western holidays and celebrations.

Preference, Choice, Quantity	Students will demonstrate an understanding of preference and choice in Chinese and how to express size and quantity through correct measure word and adjective placement by communicating in written and spoken Chinese on topics such as ordering at a restaurant, shopping at a market, and attending a banquet.
Comparison, Degree, and Two Uses of 了	Students will demonstrate an understanding of comparisons and degree and the use of 了 to express simple past and duration by communicating in written and spoken Chinese on topics such as extended family members, Chinese arts and music.
Family Structure and Expressions of Love	Students will demonstrate an understanding of the Chinese family descriptive system and idiomatic expressions of love and dating by communicating in written and spoken Chinese on topics such as extended family and comparisons of U.S. and Chinese dating customs.
Traditional Chinese Health and Medicine and Passive Voice	Students will demonstrate an understanding of traditional Chinese health and medicine and passive voice through preposition usage by communicating in written and spoken Chinese on topics such as acupuncture, the concepts of Yin and Yang, illness, and injury.
Chinese Poetry and Folk Songs	Students will demonstrate an understanding Chinese poetry and folk songs by communicating in written and spoken Chinese on topics such as the poetry of Li Bai, Du Fu, and Li Qing Zhao, the Da You, Dui Ou, and Dui Zhang poetry forms, and comparison of poetry to Chinese folk songs.
Talents and Goals	Students will demonstrate an understanding of how to describe talents and goals using adverbs of degree by communicating in written and spoken Chinese on topics such as plans for after high school, U.S. and Chinese university admissions and student life, and parental influence on decision making.
Persuasive Writing and Speaking: Environmental Protection	Students will demonstrate an understanding of how to write and speak persuasively in Chinese by communicating in written and spoken Chinese on topics such as protection of pandas in China and comparisons of environmental protection and conservation efforts in the US and China.
Formal and Informal Language	Students will demonstrate an understanding of Chinese formal and informal language by communicating in written and spoken Chinese on topics such as pop culture, entertainment, and the U.S. and Chinese economies.

Latin

Case usage, imperfect and future tense	Students will demonstrate an understanding of the genitive, dative and ablative case uses by differentiating their uses in sentences and interpreting Latin in sentences and short stories.
First Declension, First Conjugation, Sum	Students will demonstrate an understanding of the first declension, the first conjugation, case uses, and the present tense of sum by analyzing noun and verb forms and translating sentences and short stories.
Fourth Conjugation verbs, personal pronouns	Students will demonstrate an understanding of personal pronouns, fourth conjugation active and passive voice in all 6 tenses by comparing the formation of all tenses among the first, second and third conjugations and analyzing verb and pronoun forms in sentences and short stories.

Imperfect, future tense of 1st conjugation verbs, sum	Students will demonstrate an understanding of the imperfect and future tenses of 1st conjugation verbs and the irregular verb sum by comparing the differences in the formation and translation of the different verb tenses and by analyzing Latin in sentences and short stories.
Passive voice, ablative of agent, er adjectives, adverbs	Students will demonstrate mastery of passive in the present, imperfect and future tenses, ablative of agent, adjectives and adverbs by creating verb and adjective forms, interpreting and translating nouns and verbs in sentences from Latin to English and English to Latin.
Passive voice perfect system, connectors, appositives, idioms	Students will demonstrate an understanding of the passive perfect system, appositives, connectors and idioms by analyzing nouns and their case uses in a short story, answering comprehension questions on short stories, and connecting Latin verb forms with their English forms.
Second conjugation, infinitives, adjectives, Roman numerals	Students will demonstrate an understanding of Roman numerals, adjectives and verbs in the 2nd conjugation in all 6 tenses and infinitives by comparing verb tense formation in the 2nd conjugation with verbs in the 1st conjugation and interpreting verb forms and adjectives in sentences and short stories.
Third conjugation verbs	Students will demonstrate an understanding of third conjugation active and passive voice in all 6 tenses by comparing the formation of all tenses among the first, second and third conjugations and analyzing verb forms in sentences and short stories.
Vocative case, imperative mood, 2nd declension, perfect tense, ablative of means	Students will demonstrate an understanding of the 2nd declension masculine and neuter with a focus on the vocative and ablative case uses and an understanding of the perfect tense and imperative mood by analyzing and interpreting verb and nouns forms in sentences and short passages.
Third Declension, Relative and Interrogative pronouns	Students will demonstrate an understanding of third declension, relative and interrogative pronouns through translations and use of appropriate pronouns based on context.
Third Declension Neuter, I Stem, Sum, Possum	Students will demonstrate an understanding of third declension neuter, third declension i stem, sum and possum by analyzing and translating nouns and verbs in sentences.
Third Declension Adjectives, Demonstratives	Students will demonstrate a knowledge of third declension adjectives and demonstratives pronouns and adjectives through the interpretation of these forms in Latin sentences.
Ablative Absolute, Future Participles, Reflexive, Fourth and Fifth Declensions	Students will demonstrate a knowledge of ablative absolute, future participles, reflexive pronouns and adjectives, and fourth and fifth declensions by comparing their forms and translation in sentences.
Participles and Infinitives	Students will demonstrate a knowledge of participles and infinitives by comparing their forms and translation in sentences.
Indirect Statement	Students will demonstrate a knowledge of indirect statement by analyzing noun syntax and verb tense to form indirect statement in Latin.

Comparison of Adjectives and Adverbs	Students will demonstrate a knowledge of the comparison of regular and irregular adjectives and adverbs by analyzing the adjective and adverb forms and interpreting them in sentences.
Gerunds and Gerundives	Students will demonstrate an understanding of gerunds and gerundives by analyzing and interpreting verbal forms in sentences and passages by Roman authors such as Julius Caesar.
Deponent Verbs and Irregular Verbs	Students will demonstrate an understanding of deponent verbs and irregular verbs such as eo and volo by analyzing and interpreting verbal forms in sentences and passages by Roman authors such as Julius Caesar.
Subjunctive forms and its use	Students will demonstrate an understanding of the subjunctive forms and its uses in independent and dependent clauses by translating the subjunctive in original works by authors such as Cicero.
Latin Orations	Students will demonstrate an understanding of Latin orations and stylistic devices used in persuasive speeches by analyzing the orations by authors such as Cicero.
Poetry, Meter, Stylistic Devices	Students will demonstrate an understanding of Latin poetry by interpreting original works and analyzing the meter, stylistic devices, grammatical structures and purpose in poetry by authors such Ovid and Gaius Valerius Catullus
Analysis of Latin literature	Students will demonstrate an understanding of Latin literature by analyzing, translating and reading aloud original works such as Vergil's Book 1 Aeneid.

French

Introductions, Cognates, Parts of Speech, Numbers to 10	Students will demonstrate an understanding of cognates and parts of speech including singular and plural pronouns, nouns, definite and indefinite articles, and formal and informal pronouns, and numbers through 10 by exchanging information in written and spoken French on topics such as introductions and the French speaking world.
Expressing Likes and Dislikes, Subject Pronouns and Numbers to 70	Students will demonstrate the ability to express likes and dislikes and an understanding of subject pronouns and numbers through 70 by exchange information in written and spoken French on topics such as the date, time, and seasons.
Verb ÊTRE, Plural Nouns, Questions, Negative Constructions, Adjective Agreement	Students will demonstrate an understanding of how to form and use the verb ÊTRE, plural nouns, questions and negative constructions, and adjective agreement by comprehending and communicating in written and spoken French on topics such as family.
Verb ALLER, Positional Prepositions, Types of Adjectives, the French Number System	Students will demonstrate an understanding of how to form and use the verb ALLER, positional prepositions to answer the question « Où...? » , regular, irregular and possessive adjectives, and the French number system by comprehending and communicating in written and spoken French on topics such as school.
Verb AVOIR, AVOIR Expressions, Adjective Agreement	Students will demonstrate an understanding of how to form and use the verb AVOIR, AVOIR expressions and adjective agreement with nouns by comprehending and communicating in written and spoken French on topics such as shopping.

Regular ER verbs, À and De	Students will demonstrate an understanding of how to form and use regular ER verbs and the prepositions à and de by comprehending and communicating in written and spoken French on topics such as entertainment, directions, and modes of transportation.
Verb FAIRE, FAIRE Expressions, Preposition De, Negative Statements and Questions and the Near Future Tense	Students will demonstrate an understanding of how to form and use the verb FAIRE, the preposition de, negative statements and questions, and the near future tense by comprehending and communicating in written and spoken French on topics such as weather and seasonal activities.
Regular IR verbs and Irregular, Interrogative and Demonstrative Adjectives	Students will demonstrate an understanding of how to form and use regular IR verbs and irregular, interrogative and demonstrative adjectives by comprehending and communicating in written and spoken French on topics such as sports and leisure.
Irregular IR verbs, Regular RE verbs, Prepositions À and De, Interrogative Adverbs	Students will demonstrate an understanding of how to form and use irregular IR verbs, regular RE verbs, prepositions à and de, and interrogative adverbs by comprehending and communicating in written and spoken French on topics such as technology, geography and nationalities.
Conditional Tense	Students will demonstrate an understanding of the conditional tense, verbs such as rire and interrogative words by articulating details in written and spoken French using on topics such as electronic media, nationalities and French personalities and culture.
Direct Object Pronouns	Students will demonstrate an understanding of the incorporation of idiomatic expressions and the use of the past tenses with direct object pronouns in context through the comprehension and articulation of details in written and spoken French on topics such as shopping and the public transportation.
Future Form of Verbs	Students will demonstrate an understanding of the future simple tense by comprehending, discussing and articulating details in written and spoken French on topics such as French customs, geographical areas and animals
Indirect Object Pronouns and Expression Emotions	Students will demonstrate an understanding of the incorporation of indirect object pronouns, irregular verbs such as venir base root verbs and object pronouns y and en through the comprehension and articulation of details in written and spoken French on topics such as emotions and holidays.
Passé Composé, Irregular Verbs and Adverbs	Students will demonstrate an understanding of passé composé with être and avoir, regular and irregular past participles and adverbs by articulating details in written and spoken French on topics such as the history of Paris.
Past Tense	Students will demonstrate an understanding of differentiating the use of the imparfait and the passé composé and the use of object pronouns by articulating details in written and spoken French on topics such as life in the city, transportation and geography.
Reflexive and Irregular Verbs	Students will demonstrate an understanding of reflexive and irregular verbs, negative constructions and irregular adjectives by articulating details in written and spoken French on topics such as daily routines and activities.
Regular and Irregular Adjectives and Verbs	Students will demonstrate an understanding of the use of the verb être, regular verbs, regular, irregular, possessive adjectives and the prepositions à

	and de by articulating details in written and spoken French on topics such as life at home.
Relative Pronouns	Students will demonstrate an understanding of relative and interrogative pronouns and verbs such as devoir and recevoir by comprehending and articulating details in written and spoken French on topics such as history and culture in the French-speaking world.
Verb "Avoir" and Expressing Likes/Dislikes	Students will demonstrate an understanding of avoir, verb combinations and numbers to a million by articulating details in written and spoken French on topics such as student (academic) life and preferences.
Three Verb Groups in Present, Recent Past, Near Future Tenses, and Object Pronouns	Students will demonstrate an understanding of the three primary verb groups including irregular and reflexive verbs in present, recent past and near future tenses, and object pronouns by using each to communicate in written and spoken French while discussing cultural and community-related information such as personal traits, gastronomy, and daily life.
Passé Composé, Imparfait, and Négative Formats	Students will demonstrate an understanding of the passé composé, and the imparfait by using each with adverbs of frequency and in negative formats to communicate in written and spoken French while discussing cultural and community-related information such as extended family and nationalities.
Plus que Parfait and Passé Simple Past Tenses	Students will demonstrate an understanding of various past tenses including plus que parfait and passé simple by communicating information about past events in written and spoken French about cultural and community-related information such as great figures in Francophone history.
Expressions of Indefinite Quantity, Causative form of FAIRE	Students will demonstrate an understanding of expressions of indefinite quantity and the causative form of the verb FAIRE by using each to communicate in written and spoken French while discussing cultural and community-related information such as transportation, holidays and getting things done.
Futur Simple and Conditionnel Verb Forms	Students will demonstrate an understanding of the futur simple and the conditionnel verb forms by using conjunctions of time and 'si clauses' to communicate future actions and hypothetical statements in French to discuss cultural and community related information such as college and career opportunities and future planning.
Present Subjunctive Mood with Impersonal Expressions	Students will demonstrate an understanding of the present subjunctive mood by using impersonal expressions and the present subjunctive verb forms to discuss cultural and community information related to needs and obligations on topics such as health, body parts and medical terms in written and spoken French.
Past Conditional Mood, Passive Voice, and Relative Pronouns	Students will demonstrate an understanding of verbs in the past conditional mood, the passive voice and relative pronouns by using each to discuss cultural and community-related information such as Francophone theatre, cinema, and music in written and spoken French.
Francophone Culture	Students will demonstrate an understanding of Francophone culture by interpreting and expressing opinions on Francophone topics such as art and literature using comparative and superlative constructions, ordinal numbers, and a variety of verb tenses in written and spoken French.