

HIGH SCHOOL ART BATTLE PLAN

Promotable skillsets for a Warrior moving to the next grade.



ART REFLECTS THE *Character of God* SHOWCASING HIS CREATIVITY, BEAUTY, AND LOVE.



ART 1

- Learn basic observational skills.
- Make artistic decisions including design of a piece of art.
- Understand the fundamental components and guidelines that form the basis of artistic creation.
- Engage in diverse activities and projects to explore different aspects of art.
- Acquire and refine the skills and techniques used by artists in various careers.
- Critically analyze and evaluate artworks using proper art vocabulary.
- Understand the historical context and evolution of art.

ART 2

- Continue to develop the skills and techniques introduced in Art 1.
- Work with more complex artistic processes and various media.
- Create individual solutions to class problems, fostering creativity and personal expression.
- Engage in individual research to enhance his/her understanding and skills.
- Take artistic risks using the knowledge and understanding of art techniques.
- Understand intentional placement of objects within a work.
- Begin to develop a personal artistic style.
- Critique classmates' artwork using art vocabulary.

ART 3

- Increase aptitude in various materials.
- Communicate divergent personal vision in artwork.
- Consistently reflect on his/her own artwork and process, while researching art and artists.
- Understand contemporary artists and art practices.
- Comprehend the meaning of art by understanding copyright and appropriation.
- Take artistic risks using the knowledge and understanding of art techniques.
- Exhibit a high level of craftsmanship in his/her work.
- Critique classmates' artwork using art vocabulary.

STUDIO ART

- Develop a portfolio of work using a variety of media.
- Create a theme (guiding question) that will lead him/her in sustained investigation.
- Take artistic risks and challenge conventions by exploring new ideas, techniques, and materials.
- Exhibit a high-level of craftsmanship in his/her work.
- Understand basic information on major art movements in history and apply it to his/her current work.

CERAMICS

- Learn a variety of basic hand building construction methods (pinching, coil building, slab construction).
- Create functional pottery and sculpture pieces.
- Learn basic techniques for glazing works he/she creates.
- Understand the uses of tools and equipment necessary to operate a ceramic studio.
- Create pottery pieces on the wheel by learning wheel throwing techniques.
- Understand kiln loading and safety procedures.

HIGH SCHOOL ENGLISH LANGUAGE ARTS BATTLE PLAN

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**Communication was created by God.
We use verbal and written communication
to fulfill our calling that God has given us.**



ENGLISH 9

- Support the analysis of a text's explicit statements and make inferences using strong and relevant textual evidence.
- Identify the theme or central ideas of a text, analyze how they develop throughout the text, and examine their interaction with other elements like character and setting.
- Analyze how complex characters evolve, interact with others, and advance the plot.
- Compose clear and coherent informative/explanatory texts by developing topics with relevant details and examples.
- Craft arguments with clear claims, support them with evidence and reasoning, and address counterclaims effectively.
- Evaluate diverse perspectives and present information clearly in discussions or presentations, adapting speech for various contexts.
- Understand and apply proper grammar, usage, and mechanics in both writing and speaking.

ENGLISH 10

- Determine the central idea or theme of a text, analyze its development over the course of the text, and examine how it is shaped by details such as character actions, setting, and plot events.
- Support analysis of a text's explicit statements and inferences by citing strong and thorough evidence.
- Analyze how an author's choices regarding structure, word choice, tone, and point of view contribute to the meaning and impact of a text.
- Demonstrate writing well-structured arguments and expository texts by presenting clear claims or ideas, supporting them with evidence, addressing counterclaims, and organizing ideas logically.
- Compare and contrast how two or more texts address similar themes or topics to build knowledge or understand different perspectives (i.e. comparing fiction and nonfiction texts, comparing different adaptations of a work, etc.)
- Conduct short and sustained research projects by gathering relevant information from multiple sources, evaluating their credibility, and integrating the information while avoiding plagiarism.
- Exhibit mastery of standard English grammar, usage, punctuation, and spelling, and demonstrate the ability to determine or clarify the meaning of unknown words using context, affixes, or reference materials.

HONORS ENGLISH 10

- Identify the central idea or theme of a text and critically evaluate its evolution through nuanced character actions, intricate settings, and complex plot events, and explore how these elements interconnect to shape the text's overall message.
- Engage in text analysis by identifying and interpreting subtle textual nuances, supporting inferences with multiple layers of evidence to demonstrate a sophisticated understanding of the text.
- Analyze the intricacies of an author's choices, examining how structure, word choice, tone, and point of view contribute to the text's meaning and impact, while considering the historical and cultural context to gain a comprehensive understanding of the author's intent.
- Write well-structured arguments and expository texts that present clear, compelling claims or ideas and support arguments with robust evidence, address counterclaims thoughtfully, and organize his/her ideas logically. Additionally, his/her will be encouraged to incorporate advanced rhetorical strategies to enhance his/her writing.
- Demonstrate command of proper grammar, usage, punctuation, and spelling, and use sophisticated language and varied sentence structures in writing.
- Use advanced vocabulary skills to understand or clarify unknown words through context, affixes, or reference materials.
- Examine how various texts address similar themes or topics to build knowledge and understand different perspectives. Conduct comparative analysis of fiction and nonfiction texts, as well as different adaptations of a work, to develop an appreciation of both literary and informational texts.
- Conduct short and long-term research projects, gathering information from credible sources. Evaluate source credibility, integrate information, and avoid plagiarism with proper citations, and pursue independent research topics that match interests and academic goals.

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ENGLISH 11

- Analyze a variety of complex texts by identifying themes, understanding the author's purpose, and examining structural and word choices' impact on meaning.
- Support his/her analyses and claims with strong textual evidence by referencing specific passages and explaining how these citations support his/her understanding or argument.
- Evaluate arguments in informational texts by analyzing claims, counterclaims, evidence, and reasoning, in addition to assessing how an author uses rhetorical devices (e.g. ethos, pathos, logos) to persuade the audience.
- Craft clear and coherent essays that present a strong thesis and support that with logical reasoning and evidence as well as addressing counterclaims.
- Conduct short and sustained research projects by gathering information from multiple sources, evaluating the credibility of these resources, and synthesizing findings in a well-organized research paper.
- Demonstrate command of standard English conventions in speaking and writing to include mastering sentence structure, punctuation, grammar, and varied syntax.
- Participate in discussions, collaborate in groups, and present ideas clearly and persuasively in formal presentations, using multimedia as appropriate, to demonstrate effective speaking and listening skills.

ENGLISH 12

- Analyze how different authors approach the same topic or theme through the evaluation of their perspectives, reasoning, and use of rhetoric.
- Evaluate the structure of arguments, including assessing the validity of reasoning, relevance, and sufficiency of evidence.
- Develop skills in conducting research, integrating information from credible sources, and using proper citation to support original analysis.
- Write well-organized arguments that present claims clearly, support them with strong evidence, and thoughtfully address counterclaims.
- Analyze how authors use literary techniques such as symbolism, irony, and structure to create effects and convey deeper meaning.
- Understand and use advanced vocabulary in context and analyze the impact of specific word choices on meaning and tone.
- Engage in discussions and presentations, evaluating a speaker's arguments and claims, as well as adapting his/her own presentations for different audiences and purposes.

AP LITERATURE

- Explain the function of characters in literature by showing how they allow readers to study and explore a range of values, beliefs, assumptions, biases, and cultural norms.
- Explain the function of setting by showing how it not only depicts a time and place but also conveys values associated with that setting.
- Explain the function of plot and structure by showing how the arrangement of the parts and sections of a text, their relationships to each other, and the sequence in which information is revealed are all structural choices made by a writer that contribute to the reader's interpretation of the text.
- Explain the function of the narrator or speaker by showing how his/her perspective controls the details and emphasizes that affect how readers experience and interpret a text.
- Explain the function of comparison by showing how it shifts meaning from the literal to the figurative through comparison, representations, and association, inviting readers to interpret a text.
- Develop textually substantiated arguments by communicating his/her interpretations of literature through arguments.

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AP LANGUAGE

- Explain how writers' choices reflect the components of the rhetorical situation in text.
- Craft strategic choices in writing to effectively address a rhetorical situation.
- Identify and describe the claims and evidence of an argument.
- Analyze and select evidence to develop and refine a claim.
- Describe the reasoning, organization, and development of an argument.
- Use organization and commentary to illuminate the line of reasoning in an argument.
- Explain how writers' stylistic choices contribute to the purpose of an argument.
- Select words and use elements of composition to effectively advance an argument.

SPEECH

- Communicate ideas with clarity.
- Understand the importance of interpersonal communication in the world around him/her.
- Engage an audience with well-structured ideas and effective delivery.
- Compile and organize information to make a succinct point.
- Develop confidence in public speaking and cultivate the courage to overcome any apprehension he/she may feel.

HIGH SCHOOL ASL BATTLE PLAN

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Language is central to the Christian faith, serving as a powerful means by which we can share the gospel. Through study of American Sign Language and its associated cultures, students can be equipped to effectively communicate with those around them.



AMERICAN SIGN LANGUAGE (ASL) 1

- Understand basic grammatical sentence structure.
- Demonstrate knowledge of fingerspelling and numbers.
- Basic conversation sign.
- Conversationally sign with expression and receptively understand what is being communicated.
- Understand the deaf culture in America and the spiritual needs of the deaf as considered an un-reached people group in America.

AMERICAN SIGN LANGUAGE (ASL) 2

- Further conversational skills in ASL.
- Demonstrate knowledge of additional ASL Vocabulary.
- Understand grammatical sentence structure and the linguistics of ASL and deaf culture.
- Converse comfortably by signing expressively and understanding receptively.
- Further understand the deaf culture in America and around the world, along with discovering the spiritual condition of the deaf and accessibility to the gospel.

HONORS AMERICAN SIGN LANGUAGE (ASL) 3

- Expand the conversational skills and knowledge of ASL.
- Further the development of both expressive and receptive fluency of ASL.
- Increase ASL vocabulary beyond ASL 1 and ASL 2.
- Further understand grammatical sentence structure and the linguistics of ASL and deaf culture.
- Sign fluently and comfortably with expression and receptive understanding.
- Deepen understanding of the overall deaf culture in America and around the world, along with discovering the spiritual condition of the deaf and their accessibility to the gospel.

HONORS AMERICAN SIGN LANGUAGE (ASL) 4

- Develop conversational skills, knowledge and fluency of American Sign Language beyond those mastered in ASL 3.
- Further the development of both expressive and receptive fluency of ASL
- Extend ASL vocabulary and complex grammatical sentence structure with emphasis on the linguistics of ASL and deaf culture.
- Expand fluency and comfort in signing expressively and understanding receptively.
- Strengthen understanding of the overall deaf culture in America and around the world, along with discovering the spiritual condition of the deaf and their accessibility to the gospel.

HIGH SCHOOL BAND BATTLE PLAN

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Band is a way for students to develop his/her musical skills, work together in harmony, and use his/her talents to glorify Him, fostering creativity and community.



HIGH SCHOOL CONCERT BAND

- Memorize and accurately perform all 12 major scales within one octave.
- Read, count, and perform rhythms containing any kind of note in various time signatures.
- Understand intonation roles within chords and the tuning tendencies of their instrument, range, and dynamics.
- Analyze mistakes accurately, predict them, and provide constructive feedback to other ensemble members.
- Identify how a composer's country of origin, time period, and background can influence a work and its style.
- Express his/her thoughts on a piece of music or a performance using appropriate terminology.
- Identify different intervals and understand how enharmonics affect these intervals.
- Respond to a director's cues.

HIGH SCHOOL PERCUSSION

- Demonstrate proper technique on all percussion instruments.
- Understand his/her contribution to the ensemble and how it affects the music.
- Gain a deeper understanding of intonation and learn how to tune various percussion instruments.
- Read and accurately perform all types of rhythms in different time signatures.
- Compose a melody with rhythm and accompaniment.
- Memorize and accurately perform all 12 major scales.
- Analyze mistakes accurately, predict them, and provide constructive feedback to other ensemble members.
- Identify how a composer's country of origin, time period, and background can influence a work and its style.
- Respond to a director's cues.

HIGH SCHOOL CHOIR BATTLE PLAN

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Choir is a way for students to develop his/her musical skills, work together in harmony, and use his/her talents to glorify Him, fostering creativity and community.

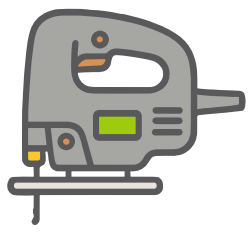


HS CHOIR

- Sight read music that becomes progressively more challenging, with increasing independence of parts and complexity of musical elements.
- Perform a diverse range of repertoire from various time periods and genres, with increasing complexity, in an appropriate style and expression.
- Understand music theory and how it enhances music literacy, comprehension of both small and large elements of various pieces, and enables successful performance of a variety of literature.
- Express a personal and collective philosophy of music appreciation and the purpose of music-making, recognizing his/her God-given talents and responsibilities to use those talents to uplift each other and his/her community for God's kingdom.
- Compose and improvise at levels appropriate to his/her maturity, reflecting his/her time in music classes and his/her personal musical aptitude and abilities.
- Explore and understand the career and future music-making opportunities available to him/her after graduation.

HIGH SCHOOL INDUSTRIAL ARTS BATTLE PLAN

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God has given us the gift of curiosity and creativity, and through Industrial Arts, students explore and hone their craftsmanship skills. By studying various trades and techniques, students are equipped to create with excellence and integrity, using their talents to serve and inspire those around them.



INDUSTRIAL ARTS 1

- Basic proficiency in using hand tools.
- Demonstrate proficient use of the following power tools: table saw, band saw, drill press, disc sander, hand router, and miter saw.
- Read measuring devices with an accuracy of 1/16 inch.
- Follow project directions that include at least four steps at a time.
- Collaborate in a group to complete individual projects simultaneously.
- Display proficiency in sanding a project and all its parts.
- Follow step-by-step brush-applied finishing procedures correctly.

INDUSTRIAL ARTS 2

- Refine all skills acquired in Industrial Arts 1 (using hand tools, read a variety of measuring devices, identifying proper tool for a task, etc.).
- Display an advanced level of proficiency in the use of power tools from Industrial Arts 1.
- Demonstrate proficient use of the following power tools: wide belt sander, planer, and router table.
- Accurately create a cut list from detailed shop drawings.
- Accurately follow step-by-step staining and finishing processes.
- Demonstrate basic knowledge of residential electrical wiring, plumbing, and framing.
- Understand basic car maintenance or know who can perform it.

INDUSTRIAL ARTS 3

- Refine skills acquired during Industrial Arts 1 and 2 (using common power tools without supervision, accurately read a variety of measuring devices, etc.).
- Navigate Vectric's Aspire software and understand how to create basic designs by completing essential tasks (i.e. creating vectors, identifying open/duplicate vectors, aligning objects, creating simple 3D objects, importing bitmaps and 3D models, etc.).
- Understand how to generate appropriate G-code for both 2D and 3D designs (pocket toolpaths, profile toolpaths, v-carve toolpaths, and 3D roughing/finishing toolpaths).
- Independently set up and initiate a CNC job without supervision.
- Exhibit fundamental skills in spindle turning.
- Demonstrate proficiency in basic welding and forging.
- Accurately create and read a cut list.
- Understand the process of combining pieces into a finished component.
- Sand, stain, spray, and apply finish to a project to achieve a smooth, streak-free surface.

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INDUSTRIAL ARTS 4

- Maintain and improve all skills learned in previous Industrial Arts classes.
- Achieve expert proficiency in using all power tools in the shop.
- Complete a full cut list and project with an accuracy of 1/32 inch.
- Follow a detailed, multi-page step-by-step guide to complete a personal project from start to finish.
- Stay focused and on task with minimal supervision.

INDUSTRIAL ARTS 5

- Maintain and refine all skills acquired in previous Industrial Arts classes.
- Use all power tools in the shop at an expert level.
- Complete projects specified in Industrial Arts IV skills at an expert level.
- Demonstrate leadership by mentoring Industrial Arts IV students.
- Complete more complex projects.
- Be self-motivated, stay focused, and remain on task with less supervision than in previous years.

HIGH SCHOOL JOB AND CAREER BATTLE PLAN

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Through the Jobs and Career course, students explore and develop their vocational skills, equipping them to pursue their God given callings with excellence and integrity.



JOB AND CAREER READINESS

- Achieve the Job Readiness Seal for Graduation by working with three mentors in 15 areas of professionalism.
- Use Youth Science to discover unique strengths and explore career paths.
- Hear from various colleges and trade schools about post-secondary education opportunities.
- Learn about day-to-day life in careers of interest from various professionals.
- Understand college terminology through vocabulary lessons.
- Learn the steps of college admissions.
- Explore different financial aid options for post-secondary education.
- Understand professional behavior and work ethics for the workplace.
- Implement strategies for job applications and interviews.
- Write a professional cover letter and resume.
- Develop effective communication skills for the workplace.

HIGH SCHOOL MATH BATTLE PLAN

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God has given us the gift of logic and reasoning, and through math, students develop problem-solving skills, recognize patterns in His creation, and use his/her understanding to glorify Him in all areas of life.

ALGEBRA 1

- Choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.
- Interpret parts of a simple exponential expression, such as terms, factors, coefficients, bases, and exponents in terms of its context.
- Recognize the structure of a quadratic expression to identify ways to rewrite it to better represent the purpose.
- Factor a quadratic expression to reveal the zeros of the function it defines.
- Create exponential equations in one or two variables and use them to solve routine problems.
- Graph equations on coordinate axes with appropriate labels and scales.
- Solve multi-step linear equations and inequalities with integer coefficients in one variable situations.
- Solve quadratic equations with integer coefficients and constants by factoring or quadratic formula, where solutions may be rational.
- Add and subtract polynomials and multiply monomials by polynomials.
- Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve.

MODIFIED ALGEBRA 1

- Translate between different forms of linear equations and inequalities.
- Interpret functions using tables, graphs, mappings, and equations.
- Explore data and find linear trends using scatterplots.
- Create and solve equations, inequalities, and systems of equations involving quadratic expressions.
- Identify zeros of a quadratic function.
- Simplify an expression or solve an equation using order of operations.
- Manipulate equations and substitute expressions into equations.

HONORS GEOMETRY

- Analyze and interpret probability for complex events and real-life situations.
- Employ logical reasoning to develop rigorous formal and informal proofs of triangles, quadrilaterals, and other polygons.
- Apply advanced concepts of congruence and similarity for right triangles.
- Characterize unique properties of shapes and evaluate complex formulas related to various two- and three-dimensional shapes.
- Manipulate shapes in the coordinate plane with precision, especially in regard to transformations.
- Solve intricate geometric problems involving parallel and perpendicular lines in the coordinate plane.
- Master advanced theorems, formulas, and relationships related to circles.

HIGH SCHOOL MATH BATTLE PLAN

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MODIFIED GEOMETRY

- Compute and interpret probability for different events and real-life situations.
- Use logical reasoning to develop formal and informal proofs of triangles, quadrilaterals, and other polygons.
- Apply congruence and similarity for right triangles.
- Define unique characteristics of shapes and evaluate formulas related to various two- and three-dimensional shapes.
- Manipulate shapes in the coordinate plane, especially regarding transformations.
- Solve geometric problems involving parallel and perpendicular lines in the coordinate plane.
- Master theorems, formulas, and relationships related to circles.

ALGEBRA 2

- Identify the parent function and transformations from graphs and equations.
- Solve systems of equations in two variables.
- Solve quadratic equations using multiple techniques.
- Use a graphing calculator to graph and analyze functions.
- Factor and identify roots of polynomials.
- Divide polynomials.
- Perform operations on functions including composition of functions.

HONORS ALGEBRA 2

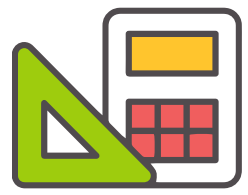
- Recognize the parent function and transformations from graphs and equations.
- Solve systems of equations in two variables.
- Master solving quadratic equations using multiple techniques.
- Utilize a graphing calculator to graph and analyze functions.
- Factor polynomials and identify the roots of polynomials.
- Perform polynomial division.
- Execute operations on functions including composition of functions.

MODIFIED ALGEBRA 2

- Identify the parent function and transformations from graphs and equations.
- Solve systems of equations in two variables.
- Solve quadratic equations using multiple techniques.
- Factor polynomials and identify the roots of polynomials.
- Divide polynomials.
- Perform operations on functions including composition of functions.

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BUSINESS MATH

- Determine discounts with formulas and complements.
- Compute dollar markups and percent markups.
- Assess gross pay, federal, and state employment taxes.
- Evaluate simple and compound interest.
- Estimate future values of annuities.
- Calculate amount financed, finance charges, and deferred payments.
- Analyze the total cost of interest over the life of the mortgage.
- Calculate cost of ending inventory, cost of goods sold, and gross profit.
- Calculate property taxes, sales taxes, and cash discounts.

ADVANCED MATH CONCEPTS

- Factor quadratics, difference of squares, and the sum and difference of cubes.
- Identify the parent function and transformations from graphs and equations.
- Solve systems of equations in two and three variables.
- Identify vertical and horizontal asymptotes.
- Graph rational functions.
- Solve exponential and logarithmic equations.
- Use the unit circle to find the sine, cosine, and tangent of an angle.

HONORS PRE-CALCULUS

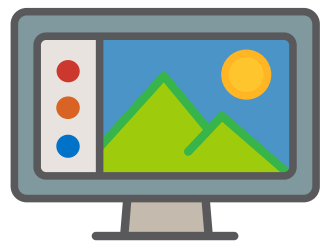
- Solve exponential and logarithmic equations.
- Translate between the geometric description and the equation for a conic section.
- Analyze and graph polynomial and rational functions.
- Identify locations and equations of vertical and horizontal asymptotes.
- Prove and apply trigonometric identities.
- Graph trigonometric functions.
- Use the unit circle to find the sine, cosine, and tangent of an angle.

AP CALCULUS

- Differentiate a variety of function types.
- Apply the derivatives of functions to various real-world situations.
- Integrate a variety of function types.
- Apply the integrals of functions to various real-world situations.
- Relate a function, its derivative, and its integral conceptually.
- Find the volume of various irregular 3-dimensional shapes.
- Solve basic differential equations.

HIGH SCHOOL MEDIA ARTS BATTLE PLAN

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Media Arts courses empower students to use their creativity and technical skills to communicate effectively and ethically. By integrating faith and learning, we inspire students to honor God and make a positive impact through media.



GAME DEVELOPMENT 1

- Learn about the classroom environment, algorithms, and MakeCode Arcade environment.
- Understand the basics of sprites in MakeCode Arcade, including adding sprites, applying artwork, and adding controls and restrictions.
- Demonstrate knowledge of event handlers such as how code is executed based upon conditional statements, as well as leverage variables to enhance the dynamism of games.
- Recognize definite and indefinite loops, their application to arrays, and searching within an array and frame-based animation.
- Define and call functions in programs to reuse code in multiple places and make it more concise and readable.

GAME DEVELOPMENT 2

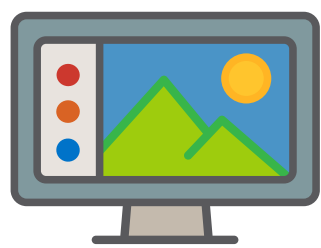
- Transition to the static typed language of Python and revisit the use of variables and event handlers from this perspective.
- Apply core programming concepts using Python and utilize variables, decision structures, loops, arrays, functions, and animations.
- Understand basic object-oriented programming and design techniques, while focusing on subclasses that inherit from the Sprite class.

VIDEO PRODUCTION

- Identify the different types of camera shots (angles) and camera movements and know how and when to apply these types of shots.
- Operate a video camera, including all basic camera functionality such as focus, aperture, exposure, framing, memory card and battery maintenance, recording, and playback.
- Organize a video project by ingesting media on a computer from memory cards, containing media in a centralized folder structure on a proper hard drive, creating and saving Adobe Premiere Pro projects, and importing media into a project.
- Edit a video project by arranging multiple media clips together in a single video timeline that tells a story by using video/audio layers, media sizes, selection tool, razor tool, text tool, effects, effects controls, and media exporting.
- Use different types of microphones to record audio and understand microphone placement, audio channels, gain levels, and sound effects.
- Use different types of lights to improve the visual interest of a camera shot, including knowledge of key, fill, and back lighting as well as color temperature.

HIGH SCHOOL MEDIA ARTS BATTLE PLAN

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MEDIA ART 1

ADOBE PHOTOSHOP:

- Know App Layout – Locate common windows including toolbar, properties panel, and layer panel, and use this information to create new projects, import media, and export common file types.
- Move & Make Selections – Move, rotate, and resize layers, as well as remove backgrounds and make selections using tools like select subject, quick selection, object selection, and lasso.
- Format Text – Add text layers to a project, apply a variety of changes to text in the properties panel and effects to text layers to create visual interest.
- Add Adjustment Layers – Use adjustment layers to manipulate an image in a variety of ways such as exposure, color, texture, etc. and use blend modes and opacity to achieve desired level of adjustment to layers.

ADOBE ILLUSTRATOR:

- Know App Layout – Locate common windows including toolbar, properties panel, and layer panel to create new projects, import media, and export common file types.
- Create & Organize Paths – Use rectangle, ellipse, and line segment tools to create paths. Change the appearance of paths using the properties panel through arrangement, opacity, stroke, and fill.
- Select Paths & Pen Draw – Use the pen, pencil, and curvature tool to create more complex paths, and leverage the selection and direct selection tool as needed to edit paths.

MEDIA ART 2

ADOBE ILLUSTRATOR:

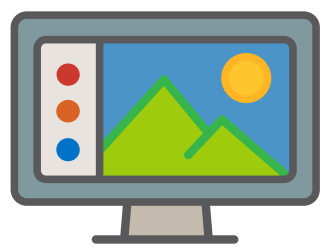
- Know App Layout - Locate common windows including toolbar, properties panel, and layer panel. Create new projects, import media, and export common file types.
- Create & Organize Paths – Use rectangle, ellipse, and line segment tools to create paths in addition to change the appearance of paths using the properties panel through arrangement, opacity, stroke, and fill.
- Select Paths & Pen Draw – Use the pen, pencil, and curvature tool to create more complex paths. Leverage the selection and direct selection tool as needed to edit paths.
- Organize AI Projects – Use layer panel to sequence and name layers for flexible use in Adobe After Effects.
- Build Complex Paths – Use a variety of tools in Illustrator to make complex art in a more efficient way. Use shape builder and pathfinder tool to combine paths.

ADOBE AFTER EFFECTS:

- Know App Layout – Locate common windows including toolbar, properties panel, timeline, and project structure. Create new projects, import media, and use render queue.
- Animate Layer Properties – Create and organize keyframes on the main properties of an AE layer including position, scale, rotation, anchor point, and opacity.
- Import & Animate Artwork – Import properly prepared AI artwork into AE for animation. Leverage keyframe assistant, ease and wizz, and rubberhose plugins to create complex movement.

HIGH SCHOOL MEDIA ARTS BATTLE PLAN

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By integrating faith and learning, we inspire students to honor God and make a positive impact through media.



3D PRINTING

- Navigate the Onshape interface, including setting default units both globally and on a per drawing basis, navigating the various areas of the Onshape workspace, and naming/renaming browser elements.
- Understand the difference between orthographic and isometric drawings.
- Create simple and complex 2D sketches and from them create 3D objects using extrude, revolve, rib, patterns, mirror, holes, fillet, chamfer, loft, shell, and planes.
- Understand how to create assemblies and joints and create various types of joints (i.e. rigid, revolute, slider, cylindrical, pin slot, parallel, planer, tangent, and ball).
- Demonstrate how to maintain and calibrate a 3D printer.
- Understand how to export a 3D model from Onshape into the Prusa slicer, create the necessary G-Code to print the model, export that G-Code to a 3D Printer, determine appropriate print temperatures based on the filament being used, and choose the filament based on the application.

WOODTURNING

- Understand how to properly mount both spindle and faceplate projects.
- Properly use basic turning tools including spindle gouge, roughing gouge, parting tool, bowl gouge, scrapers, calipers, and center-finder.
- Identify the causes of a 'catch' and learn strategies to prevent them.
- Choose suitable materials for a woodturning project and master the technique of gluing pieces together to form a turning blank.
- Know how lathe speed influences the turning process.
- Properly sand and finish a woodturning project using appropriate materials.
- Use both the table saw and miter saw safely without supervision.

PRODUCT DEVELOPMENT

- Conceptualize a product in a team environment.
- Develop an executable project plan covering all aspects of product development (sourcing, funding, materials and construction, and timing).
- Recognize downstream effects of delays in upstream work breakdown structures.
- Market a product effectively.
- Price a product for profit.
- Sell a product efficiently while understanding the importance of inventory, advance orders, and out of inventory orders.

INDUSTRIAL ARTS 3

- Refine skills acquired during Industrial Arts 1 and 2 (using common power tools without supervision, accurately read a variety of measuring devices, etc.).
- Navigate Vectric's Aspire software and understand how to create basic designs by completing essential tasks (i.e. creating vectors, identifying open/duplicate vectors, aligning objects, creating simple 3D objects, importing bitmaps and 3D models, etc.).
- Understand how to generate appropriate G-code for both 2D and 3D designs (pocket toolpaths, profile toolpaths, v-carve toolpaths, and 3D roughing/finishing toolpaths).
- Independently set up and initiate a CNC job without supervision.
- Exhibit fundamental skills in spindle turning.
- Demonstrate proficiency in basic welding and forging.
- Accurately create and read a cut list.
- Understand the process of combining pieces into a finished component.
- Sand, stain, spray, and apply finish to a project to achieve a smooth, streak-free surface.

HIGH SCHOOL SCIENCE BATTLE PLAN

Promotable skillsets for a Warrior moving to the next grade.



God has revealed His wisdom through the natural world, and in science, students explore His creation, develop critical thinking skills, and use his/her discoveries to honor Him and better understand the world He has made.



BIOLOGY

- Utilize scientific theories, methods, and processes.
- Demonstrate knowledge of both prokaryotic and eukaryotic cells including cell metabolism, cell communication, cell cycle, biochemistry, and cell composition.
- Describe organism interactions and their environment as well as review ecosystems, food chains, food webs, and trophic levels.
- Understand the structure of DNA, how genes are inherited through chromosomes, the concepts of alleles, genotype and phenotype, the process of meiosis, Mendelian inheritance patterns, and the basic mechanisms of genetic variation through mutation and recombination.
- Study microscopic organisms like bacteria, viruses, and fungi, and how they interact with their environment.
- Explore the structure and function of the human body.
- Defend his/her faith in God's creation of the world as it relates to evolution.

HONORS BIOLOGY

- Explain the behavior of living things in a variety of scenarios incorporating scientific theory and real-world applications.
- Analyze factors that impact an ecosystem's equilibrium or disequilibrium.
- Explain biodiversity and loss of diversity.
- Describe the structure and function of plant and animal cells.
- Explore the cellular processes that regulate life in plants and animals.
- Identify factors that impact heredity, including structure and function of DNA, mutations, cellular genetics, and other genetic mechanisms.
- Explain creationism, intelligent design, and evolution; think critically about how each concept/theory aligns (or does not align) with scripture, historic Christianity, and what we observe in the world around us.

CHEMISTRY

- Describe the structure of an atom and explain how this structure relates to trends on the periodic table.
- Apply the rules of nomenclature to name and write chemical formulas and explain the differences in the properties of bond types.
- Use the Valence Shell Electron Pair Repulsion (VSEPR) theory to make predictions about molecules and determine the type of IMFs present.
- Classify different types of chemical reactions, predict the products of these reactions, and balance chemical equations using the law of conservation of mass.
- Solve stoichiometric problems and perform calculations based on the relationship between particles, moles, mass, and volume in chemical reactions.
- Define and describe the factors that affect the solubility of substances and perform calculations on concentration and dilution.
- Explain the gas laws and apply them to solve problems involving pressure, volume, temperature, and moles, and apply these laws to gas behavior and the kinetic molecular theory.
- Identify properties of acids and bases, and classify substances as acids, bases, or neutral.
- Demonstrate the correct use of laboratory equipment to make measurements and apply the concepts of accuracy and precision in measurements.

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HONORS CHEMISTRY

- Describe the structure of an atom and explain how this structure relates to trends on the periodic table.
- Apply the rules of nomenclature to name and write chemical formulas and explain the differences in the properties of bond types.
- Use Valence Shell Electron Pair Repulsion (VSEPR) theory to make predictions about molecules and determine the type of IMFs present and to determine hybridization of the central atom.
- Classify different types of chemical reactions, predict the products of these reactions, and balance chemical equations using the law of conservation of mass.
- Solve stoichiometric problems and perform calculations based on the relationship between particles, moles, mass, and volume in chemical reactions.
- Define and describe the factors that affect the solubility of substances and perform calculations on concentration, dilution, and colligative properties.
- Explain the gas laws and apply them to solve problems involving pressure, volume, temperature, and moles, and apply these laws to gas behavior and the kinetic molecular theory.
- Identify and classify substances as acids, bases, or neutral, and apply the concepts of pH, pOH, and the Bronsted-Lowry acid-base theory to solve problems and make predictions.
- Demonstrate the correct use of laboratory equipment to make measurements and apply the concepts of accuracy and precision in measurements.

PHYSICAL SCIENCE

- Describe and calculate the motion of objects and apply Newton's laws of motion to analyze the relationship between force, mass, and acceleration.
- Explain the different forms of energy (kinetic, potential, thermal, etc.) and their transformations in physical systems, and apply the law of conservation of energy to these systems.
- Define the properties of waves, describe how they transfer energy, and differentiate between mechanical and electromagnetic waves and explain their behaviors.
- Identify the states of matter and explain the changes between them.
- Understand the structure of atoms and molecules and how matter can be classified and organized on the periodic table.
- Apply the rules of nomenclature to name and write chemical formulas for ionic and covalent compounds and explain the differences between ionic and covalent bonds.
- Balance chemical equations and recognize and describe different types of chemical reactions (e.g., synthesis, decomposition, combustion).

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HONORS PHYSICS

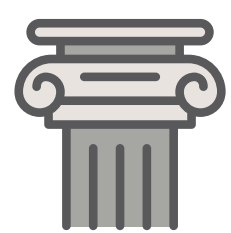
- Use kinematic equations to solve projectile motion problems.
- Apply Newton's laws in a variety of real-world situations.
- Describe and calculate work and power.
- Use vectors and vector notation to solve simultaneous force problems.
- Describe, diagram, and calculate the refraction of light through a lens.
- Calculate electric fields and forces using Coulomb's law.
- Use Ohm's law as applied to series, parallel, and complex circuits.

HONORS ANATOMY AND PHYSIOLOGY

- Understand that God designed our bodies using a hierarchy of organization, starting from the atomic level, progressing to cells, tissues, organs, and body systems, which all interact together to form the organism.
- Understand how cells interact together to maintain homeostasis.
- Know the function and location of the four types of tissues: epithelial, connective, muscle, and nervous.
- Recognize that the integumentary system, muscular system, and skeletal system conduct a variety of supportive or protective functions for the body.
- Comprehend that the nervous system conducts a variety of sensory, motor, and integrative functions for the body, working with the endocrine system to control the internal environment of the body.
- Understand that the cardiovascular system conducts transportation and integrative functions for the body.
- Know that the respiratory system conducts transpiration for the body.
- Understand how the digestive system and urinary system assimilate and remove waste from the body.
- Design and conduct scientific investigations through experiments, dissections, research, scientific texts, and technology.

HIGH SCHOOL HISTORY BATTLE PLAN

Promotable skillsets for a Warrior moving to the next grade.



God is the creator of time and transcends all time and is in our past, present, and future. God's word speaks to every area of social studies: History, Geography, Government, and Economics.



AMERICAN HISTORY

- Understand the difference between primary and secondary sources, evaluate reliability, and recognize potential bias.
- Use historical thinking to examine key documents forming the basis of the United States.
- Explore how industrialization transformed America from agrarian to urban, increasing immigration and migration.
- Analyze how industrial and territorial growth led to overseas expansion and set the stage for WWI.
- Ascertain that the Post-WWI period was characterized by economic, social, and political turmoil which led to rapid cultural shifts and the Great Depression.
- Evaluate how the bombing of Pearl Harbor forced the US into WWII, changing its focus from isolationism to international involvement.
- Conclude that after WWII, the US and USSR emerged as superpowers, leading to the Cold War and its social and political implications.
- Understand the US emerged from the Cold War as a dominant leader amidst global challenges.

HONORS AMERICAN HISTORY

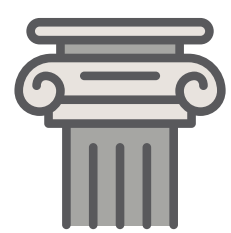
- Distinguish between primary and secondary sources, evaluate their reliability, and recognize potential biases.
- Apply historical thinking to analyze key documents such as the Declaration of Independence, Articles of Confederation, NW Ordinance, and the US Constitution.
- Investigate how industrialization transformed America from an agrarian society to an urban one, leading to increased immigration and migration.
- Examine how industrial and territorial growth led to overseas expansion and set the stage for American involvement in WWI.
- Assess the economic, social, and political turmoil of the post-WWI period, including the Great Depression and federal economic programs.
- Evaluate the shift from isolationism to international involvement following the bombing of Pearl Harbor, and explore the roles of marginalized groups in WWII.
- Analyze the emergence of the US and USSR as superpowers after WWII, the Cold War confrontations, and their social and political implications.
- Understand the US's dominant role in world affairs post-Cold War amidst global challenges.

WORLD HISTORY

- Understand the difference between primary and secondary sources, evaluate their reliability, and recognize potential biases.
- Explore how the Age of Enlightenment evolved from the Scientific Revolution, impacting social, political, and economic institutions, and influencing the founding fathers.
- Comprehend the Age of Revolutions, marked by the democratic and industrial revolutions, and their global political, economic, and social consequences.
- Analyze the competition for overseas empires during the era of "new imperialism," focusing on the underdeveloped world and leading to the domination and exploitation of Asia, Africa, and Latin America, which contributed to the causes of WWI.
- Explore the rapid technological advances and tensions between industrialized nations in the first half of the 20th century, leading to WWI and setting the stage for WWII.
- Understand that WWII transformed the balance of world power, being the most destructive and costly war, and leading to the Cold War, which overlapped with decolonization and national liberation.
- Explain how the global balance of power shifted with the end of the Cold War. Wars, territorial disputes, ethnic and cultural conflicts, terrorism, technological advances, human rights expansion, and global economic changes present new challenges.

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US GOVERNMENT

- Analyze the structure and functions of the three branches of government, including how their powers are separated and balanced.
- Evaluate the impact of the Constitution and the Bill of Rights on American democracy and individual liberties, discussing both historical and contemporary implications.
- Compare various political ideologies and their influence on policy-making, public opinion, and political behavior in the United States.
- Assess the role of federalism in the American political system, including how state and federal powers interact and affect governance.
- Examine the electoral process, including the significance of political parties, interest groups, and campaign financing in shaping elections and policy outcomes.
- Explore the relationship between the media and government, analyzing how media influences public perception, political discourse, and policy agendas.
- Discuss the importance of civic engagement and participation in a democratic society, including the responsibilities of citizens in influencing government and policy.
- Evaluate contemporary social and political issues, applying critical thinking skills to explore diverse perspectives and potential solutions to these challenges.

PERSONAL FINANCE

- Understand the basic components of a budget and how it functions.
- Understand how to save money while also balancing a budget.
- Examine the dangers and usefulness of debt when considering credit and obtaining loans, along with understanding the role of interest rates.
- Plan for saving and paying college tuition and loans by taking necessary monetary measures.
- Understand the concept of insurance and the role it plays in mitigating risk, protecting assets from damage and destruction, and providing compensation for losses.
- Examine the variety of taxes within the United States and how these taxes impact income and the spending ability of the average American.
- Comprehend how to begin investing in various funds while exploring essential strategies for preparing for retirement and long-term financial planning.

CURRENT SOCIAL PROBLEMS

- Identify a current social problem as a moral controversy that affects people and/or groups.
- Comprehend that America is a pluralistic society with a variety of cultures, worldviews, and information that informs our understanding of social issues.
- Examine current social problems from a Biblical perspective, understanding that the Bible guides us in our interpretation and approach to the problem.
- Build a Biblical foundation in medical ethics, including how abortion and euthanasia go against Biblical principles and emphasizing how to preserve life.
- Develop a Biblical foundation in criminal justice, covering the five perspectives of justice, the death penalty, and the "Just War Theory".
- Establish a Biblical foundation in marriage, gender, and sexuality, examining these categories as defined by the Bible.

HIGH SCHOOL SPANISH BATTLE PLAN

Promotable skillsets for a Warrior moving to the next grade.



World Language is central to the Christian faith, serving as a powerful means by which we can share the gospel. Through study of Spanish and its associated cultures, students can be equipped to effectively communicate with those around them.



SPANISH 1

- Demonstrate mastery of greetings and personal introductions; descriptions of people, places, and activities; expressing preferences; telling time and counting; discussing daily routine and schedules; discussing basic foods and clothing; and describing weather.
- Communicate with basic grammatical forms, structures, and concepts appropriately using all of the present tense of both regular and irregular verbs, as well as verb expressions with tener and ir.
- Identify accurate sounds and reproduce them with accuracy when speaking.
- Memorize scripture verses in Spanish.
- Use the framework of vocabulary and grammar to encode meaning (speaking and writing) and to decode meaning (reading and listening).

SPANISH 2

- Expand knowledge of vocabulary to include mastery of identifying and describing people and feelings; technology; daily routine; vacation; athletics and health; shopping and clothes.
- Communicate with advanced grammatical forms, structures, and concepts appropriately using all of the present, preterite and imperfect tenses of both regular and irregular verbs, and direct/indirect/reflexive pronoun use, and familiar commands.
- Identify accurate sounds and effort to reproduce them with accuracy when speaking.
- Memorize scripture verses in Spanish.
- Use the framework of vocabulary and grammar to encode meaning (speaking and writing) and to decode meaning (reading and listening).

HONORS SPANISH 3

- Further expand knowledge of vocabulary to include identifying and describing people and feelings; food preparation; travel; newspapers; employment; literature.
- Communicate with additional advanced grammatical forms, structures, and concepts (appropriately using all of the present, preterite, imperfect, future tenses and present subjunctive (mood) of both regular and irregular verbs, direct/indirect/reflexive pronoun use, preposition use including por / para, and formal commands).
- Identify accurate sounds and effort to reproduce them with accuracy when speaking.
- Memorize scripture verses and explain what the verse means in Spanish.
- Use the framework of vocabulary and grammar to encode meaning (speaking and writing) and to decode meaning (reading and listening).

HONORS SPANISH 4 AND 5

- Continue to expand knowledge of vocabulary over a two-year period to include identifying and describing people and feelings; the environment and climate; free time; neighborhood/school/jobs; literature; physical fitness; medical; healthy eating; the gospel and evangelism; employment.
- Communicate with a vast array of advanced grammatical forms, structures, and concepts (appropriately using all of the present, preterite, imperfect, future, conditional tenses, present/past/future/conditional perfects, and present/past subjunctive (mood) of both regular and irregular verbs, direct/indirect/reflexive pronoun use, preposition use including por/para).
- Identify accurate sounds and reproduce them with accuracy when speaking.
- Memorize scripture verses and explain what the verse means in Spanish.