



LACS HIGH SCHOOL ACADEMIC

GOALS & OBJECTIVES

Los Altos Christian Schools offers curriculum which is based on a Christian perspective of education. We feel it is important to integrate scriptural principles and biblical threads into each area of subject matter. We continually research a variety of curriculums and have selected materials that will offer your child a high-quality academic education, centered on the principles of God's Word.

SPANISH

GOALS & OBJECTIVES

Goal 1: Communication

Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes.

Objectives:

1. **Interpersonal Communication:** Learners interact and negotiate meaning in spoken, signed, or written conversations to share information reactions, feelings, and opinions
2. **Interpretive Communication:** Learners understand, interpret, and analyze, what is heard, read or viewed on a variety of topics
3. **Presentational Communication:** Learners present information, concepts and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of listeners, readers, or viewers.

Goal 2: Culture

Interact with cultural competence and understanding

Objectives:

1. **Relating Cultural Practices to Perspectives:** Learners use the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the cultures studied
2. **Relating Cultural Products to Perspectives:** Learners use the language to investigate, explain, and reflect on the relationship between the products and perspectives of the cultures studied

Goal 3: Connections

Connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations, as well as Missions around the world.

Objectives:

1. **Making Connections:** Learners build, reinforce, and expand their knowledge of other disciplines while using the language to develop critical thinking and to solve problems creatively
2. **Acquire Information and Diverse Perspectives:** Learners access and evaluate information and diverse perspectives that are available through the language and its cultures

Goal 4: Comparisons

Develop insight into the nature of language and culture in order to interact with cultural competence

Objectives:

1. **Language Comparisons:** Learners use the language to investigate, explain, and reflect on the nature of the language through comparisons of the language studied and their own
2. **Cultural Comparisons:** Learners use the language to investigate, explain, and reflect on the concept of culture through comparisons of the cultures studied and their own

SPANISH

GOALS & OBJECTIVES

Goal 5: Communities

Communicate and interact with cultural competence in order to participate in multilingual communities at home and around the world.

Objectives:

1. School and Global Communities: Learners use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world
2. Lifelong Learning: Learners set goals and reflect on their progress in using languages for enjoyment, enrichment and advancement

9TH GRADE

BIBLE

GOALS & OBJECTIVES

Goal 1: To better understand God and the attitude we should we have towards his Word **Objectives:**

1. To establish God as the focus of our Bible study
2. To illustrate some of the negative consequences of wrong emphases
3. Describe the fall of man and the existence of sin and death
4. Challenge students to develop a personal relationship with God in true and loving fellowship
5. To present God's Word and God's providence as tools for knowing Him
6. define distinguish God's essence and His attributes
7. define and state the doctrine of the Trinity of God

Goal 2: Develop practical exercises for developing a healthy relationship with God **Objectives:**

1. To provide concrete advice on integrating such mediation into the students' personal devotions
2. Stress the supreme importance of our relationship and fellowship with God 2.
3. Challenge the students to meditate on God's truth
4. Highlight also the responsibility to show love to family

Goal 3: Apply knowledge to life and other areas of study **Objectives:**

1. Provide examples of people who demonstrate a passion for Christ
2. Define and state the doctrines of impeccability and atonement
3. Understand how stories help us discover how we should live our lives
4. Challenge the students to live and act as one in God

Goal 4: To understand who Jesus Christ was and still is **Objectives:**

1. To define and state Christ's offices as Prophet, Priest, and King
2. Present Christ as both Jehovah and the Angel of Jehovah
3. Define and state the doctrine of Christ's deity 4. See how God is working in the entire world
5. Define and state the doctrine of Christ's humanity
6. Challenge students to cherish Christ for the goodness revealed in His names
7. Introduce Old Testament descriptions of the messiah

9TH GRADE

LANGUAGE ART

GOALS & OBJECTIVES

English Literature

Goal 1: To use their knowledge and understanding of key ideas and details in both literature and informational texts.

Objectives:

1. Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
2. Determine a central idea of a text and analyze its development over the course of the text.
3. Analyze how the author unfolds an analysis or series of ideas or events, including the order in which the points are made, how they are introduced and developed, and the connections that are drawn between them.

Goal 2: To use their knowledge of word origins and word relationships, to determine the meaning of specialized vocabulary and to understand the precise meaning of grade-level-appropriate words in both literature and informational texts.

Objectives:

1. Read aloud narrative and expository text fluently and accurately and with appropriate pacing, intonation, and expression.
2. Identify and interpret figurative language and words with multiple meanings.
3. Recognize the origins and meanings of frequently used foreign words in English and use these words accurately in speaking and writing.
4. Monitor informational texts for unknown words or words with novel meanings by using word, sentence, and paragraph clues to determine meaning.
5. Interpret words and phrases as they are used in a text, including determining figurative meanings.

Goal 3: To read and understand grade-level-appropriate material.

Objectives:

1. Determine theme or central ideas of a text
2. Analyze how and why individuals, events, and ideas develop and interact over the course of a text
3. Read and comprehend complex literary and informational texts independently and proficiently
4. Cultivate understanding of story elements
5. Assess point of view or purpose to show how it shapes the content and style of a text
6. Gain a basic understanding and appreciation of Shakespeare's life, his work, and his world
7. Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of text relate to each other and the whole

Goal 3: To integrate knowledge and ideas.

Objectives:

1. Analyze various accounts of a subject told in different mediums
2. Analyze how and why individuals, events, and ideas develop and interact over the course of a text.
3. Analyze how an author draws on and transforms source material in a specific work

9TH GRADE

LANGUAGE ART

GOALS & OBJECTIVES

Writing

Goal 1: To write clear, coherent, and focused essays.

Objectives:

1. Choose the form of writing that best suits the intended purpose.
2. Create multiple-paragraph expository compositions:
 - Engage the interest of the reader and state a clear purpose.
 - Develop the topic with supporting details and precise verbs, nouns, and adjectives to paint a visual image in the mind of the reader
 - Conclude with a detailed summary linked to the purpose of the composition
3. Use a variety of effective and coherent organizational patterns, including comparison and contrast; organization by categories; and arrangement by spatial order, order of importance, or climactic order
4. Revise writing to improve the organization and consistency of ideas within and between paragraphs

Goal 2: To write different types of texts for different purposes.

Objectives:

1. To write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content.
 - Develop the topic with well-chosen, relevant, and sufficient facts, extended definitions, concrete details, quotations, or other information and examples appropriate to the audience's knowledge of the topic.
 - Use appropriate and varied transitions to link the major sections of the text, create cohesion, and clarify the relationships among complex ideas and concepts.
 - Use precise language and domain-specific vocabulary to manage the complexity of the topic.
 - Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.
 - Provide a concluding statement or section that follows from and supports the information or explanation presented
2. Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences.
 - Engage and orient the reader by setting out a problem, situation, or observation, establishing one or multiple point(s) of view, and introducing a narrator and/or characters; create a smooth progression of experiences or events.
 - Use narrative techniques, such as dialogue, pacing, description, reflection, and multiple plot lines, to develop experiences, events, and/or characters. To develop and justify the interpretation through sustained use of examples and textual evidence
 - Use a variety of techniques to sequence events so that they build on one another to create a coherent whole.
 - Use precise words and phrases, telling details, and sensory language to convey a vivid picture of the experiences, events, setting, and/or characters.
 - Provide a conclusion that follows from and reflects on what is experienced, observed, or resolved over the course of the narrative.

9TH GRADE

LANGUAGE ART

GOALS & OBJECTIVES

Goal 3: To write arguments to support claims in an analysis of substantive topics and/or write arguments to support claims in an analysis of substantive topics or texts, texts, using valid reasoning and relevant and sufficient evidence.

Goal 4: Research to build and present knowledge.

Objectives:

1. Conduct short as well as more sustained research projects.
2. Gather relevant information from multiple authoritative print and digital sources
3. Draw evidence from literary or informational texts to support analysis, reflection, and research.

Goal 5: Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Language

Goal 1: To write with a command of standard English conventions appropriate to this grade level.

Objectives:

1. Use parallel structure.
2. Use various types of phrases (noun, verb, adjectival, adverbial, participial, prepositional, absolute) and clauses (independent, dependent; noun, relative, adverbial) to convey specific meanings and add variety and interest to writing or presentations.
3. Use a semicolon (and perhaps a conjunctive adverb) to link two or more closely related independent clauses.
4. Use a colon to introduce a list or quotation.
5. Spell correctly.

Goal 2: To apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

Goal 3: To determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade level reading and content, choosing flexibly from a range of strategies.

Goal 4: To acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

9TH GRADE

LANGUAGE ART

GOALS & OBJECTIVES

Listening and Speaking Skills

Goal 1: To deliver focused, coherent presentations that convey ideas clearly and relate to the background and interests of the audience.

Objectives:

1. Relate the speaker's verbal communication to the nonverbal message (e.g., posture, gesture)
2. Identify the tone, mood, and emotion conveyed in the oral communication
3. Restate and execute multiple-step oral instructions and directions
4. Select a focus, an organizational structure, and a point of view, matching the purpose, message, occasion, and vocal modulation to the audience
5. Emphasize salient points to assist the listener in following the main ideas and concepts
6. Support opinions with detailed evidence and with visual or media displays that use appropriate technology
7. Use effective rate, volume, pitch, and tone and align nonverbal elements to sustain audience interest and attention
8. Analyze the use of rhetorical devices for intent and effect

Goal 2: To initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade level topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Goal 3: To integrate multiple sources of information presented in diverse media or formats (e.g., visually, quantitatively, orally) evaluating the credibility and accuracy of each source.

Goal 4: To evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.

Goal 5: To present information, findings, and supporting evidence clearly, concisely, and logically (using appropriate eye contact, adequate volume, and clear pronunciation) such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose (e.g., argument, narrative, informative, response to literature presentations), audience, and task.

Goal 6: To make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.

Goal 7: To adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

9TH GRADE

MATH

GOALS & OBJECTIVES

Algebra

Goal 1: To work with algebraic expressions

Objectives:

1. Use variable
2. Know the order of operations
3. Use exponential notation
4. Use properties of numbers in algebra
5. Add, subtract, multiply and divide real numbers
6. Write expressions and evaluate formulas
7. Use the distributive property

Goal 2: To calculate and solve multi-step equations and inequalities

Objectives:

1. Solve two-step and multi-step equations
2. Solve equations with variables on both sides
3. Use ratios
4. Set up and solve proportion problems
5. Set up equations for problem solving
6. Solve mixture problems
7. Graph inequalities
8. Solve inequalities with addition, subtraction, multiplication, and division
9. Solve multi-step and compound inequalities

Goal 3: To work with graphs and functions

Objectives:

1. Graph on the coordinate plane
2. Identify the relation of a function
3. Identify function rules from tables and charts
4. Write a function rule
5. Solve problems using direct variation, inverse variation, and inductive and deductive reasoning

Goal 4: To solve linear equations and graphs

Objectives:

1. Identify the rate of change and slope
2. Know and utilize slope-intercept form
3. Know and utilize point-slope form
4. Identify parallel and perpendicular lines

9TH GRADE

MATH

GOALS & OBJECTIVES

Goal 5: To understand systems of equations and inequalities

Objectives:

1. Solve systems by graphing
2. Solve systems by using substitution
3. Solve systems using elimination
4. Understand the applications of linear systems
5. Solve and graph linear inequalities

Goal 6: To use exponents, polynomials, and factoring to solve equations

Objectives:

1. Solve problems containing zero and negative exponents
2. Apply scientific notation
3. Solve multiplication properties of exponents
4. Solve division properties of exponents
5. Add and subtract polynomials
6. Multiply and factor polynomials
7. Multiply binomials
8. Identify special cases
9. Factor trinomials of different types, factor special cases, and factor by grouping

Goal 7: To learn quadratic equations and functions

Objectives:

1. Explore quadratic graphs
2. Identify quadratic functions
3. Find and estimate square roots
4. Solve quadratic equations
5. Complete the square
6. Use the quadratic formula and the discriminant

Goal 8: To work with radical expressions and equations

Objectives:

1. Simplify radicals
2. Use the Pythagorean Theorem
3. Solve operations with radical expressions
4. Solve radical equations
5. Graph square root functions

Goal 9: To work with rational expressions and equations

Objectives:

1. Simplify rational expressions
2. Multiply and divide rational expressions
3. Divide polynomials
4. Add and subtract rational expressions
5. Solve rational equations

9TH GRADE

MATH

GOALS & OBJECTIVES

Geometry

Goal 1: To review the use of the tools of geometry

Objectives:

1. Learn patterns and inductive reasoning
2. Make drawings, nets, and other models
3. Identify points, lines, and planes
4. Identify segments, rays, parallel lines, and planes
5. Measure segments and angles
6. Make basic constructions
7. Review coordinate planes
8. Measure perimeter, circumference, and area

Goal 2: To learn geometric reasoning and how to construct a proof

Objectives:

1. Learn conditional statements
2. Learning bi-conditionals and definitions
3. Use deductive reasoning
4. Review reasoning in algebra
5. Prove angles congruent

Goal 3: To work with parallel and perpendicular lines and their properties

Objectives:

1. Identify properties of parallel lines
2. Prove lines parallel
3. Use angle-sum theorems
4. Plot lines in a coordinate plane
5. Plot slopes of parallel and perpendicular lines
6. Construct parallel and perpendicular lines

Goal 4: To learn the properties of triangles

Objectives:

1. Identify congruent triangles
2. Prove triangle congruence
3. Use congruent triangles for problem solving
4. Develop theorems of triangle congruence using isosceles, equilateral, and right triangles
5. Identify midsegments and bisectors of triangles
6. Learn concurrent lines, medians, and altitudes
7. Learn inverses, contrapositives, and indirect reasoning
8. Prove inequalities in triangles

9TH GRADE

MATH

GOALS & OBJECTIVES

Goal 5: To learn the properties of quadrilaterals

Objectives:

1. Classify quadrilaterals
2. Identify properties of parallelograms
3. Prove quadrilaterals are parallelograms
4. Identify special parallelograms
5. Construct proofs using coordinate geometry

Goal 6: To use similarity to construct proofs

Objectives:

1. Review ratios and proportions
2. Identify similar polygons
3. Prove triangle similarity
4. Prove the similarity of right triangles
5. Prove triangle proportions

Goal 7: To learn the properties of right triangles and introduce trigonometry

Objectives:

1. Review the Pythagorean Theorem and learn its converse
2. Apply theorem to special right triangles
3. Learn the tangent, sine and cosine ratios
4. Measure angles of elevation and depression
5. Calculate vectors

Goal 8: To identify different transformations

Objectives:

1. Identify and find the following—
 - Translations
 - Reflections
 - Rotations
 - Symmetry
 - Dilations
 - Tessellations and Compositions

Goal 9: To calculate area, surface area, and volume

Objectives:

1. Calculate areas of parallelograms, triangles, trapezoids, rhombuses, kites, and regular polygons
2. Identify the perimeters and areas of similar figures
3. Use trigonometry and area
4. Measure circles, arcs, and sectors
5. Identify space figures and cross sections
6. Measure the surface area of prisms, cylinders, pyramids, and cones
7. Find the volumes of prisms, cylinders, pyramids, and cones
8. Measure the areas and volumes of spheres and similar solids

**9TH
GRADE**

MATH

GOALS & OBJECTIVES

Goal 10: To work with the properties of circles

Objectives:

1. Recognize tangent lines, chords, and arcs
2. Use inscribed angles
3. Measure angles and segment lengths as applied to circles
4. Construct circles in the coordinate plane

9TH GRADE

SCIENCE

GOALS & OBJECTIVES

Ecology: Marine Biology and Environmental Science

Goal 1: To gain an understanding of the interactions between, the energy and dynamics between ecosystems.

Objectives:

1. Use mathematics/computational representations to support explanations of factors that affect carrying capacity of ecosystems.
2. Use mathematics/computational representations to support and revise explanations based on evidence about factors affecting biodiversity.
3. To use mathematics/computational representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystems.
4. Design evaluate and refine a solution for reducing the impacts of human activities.
5. Evaluate evidence for the role of group behavior and individual species.

Goal 2: To gain an understanding of earth's place in the universe.

Objectives:

1. Use mathematics/computational representations to predict the motion of orbiting objects in the solar system.

Goal 3: To gain and understanding of Earth's systems.

Objectives:

1. Develop a model to illustrate how Earth's internal and surface processes operate at different at different spatial and temporal scales to form continental and ocean floor features.
2. Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems.
3. Develop a model based on evidence of Earth's interior to describe the cycling of matter by thermal convection.
4. Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.
5. Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes.
6. Develop a quantitative model to describe the cycling of carbon among the hydrosphere, atmosphere, geosphere, and biosphere.

Goal 4: To gain and understanding of Earth and human activity.

Objectives:

1. Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.
2. Create a computational simulation to illustrate the relationships among the management of natural resources, the sustainability of human populations, and biodiversity.
3. Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.
4. Analyze geoscience data and the results from global climate models to make an evidence-based forecast of the current rate of global or regional climate change and associated future impacts to Earth's systems.
5. Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.

9TH GRADE

SCIENCE

GOALS & OBJECTIVES

Investigation and Experimentation

Goal 1: To understand the scientific process.

Objectives:

1. To develop a hypothesis
2. To select and use appropriate tools and technology to perform tests, collect data, and display data
3. To construct appropriate graphs from data and develop qualitative statements about the relationships between variables
4. To communicate the steps and results from an investigation in written reports and oral presentations
5. To recognize whether evidence is consistent with a proposed explanation
6. To form and explain the conclusion reached through the experimentation process
7. Present findings in an oral presentation

10TH GRADE

BIBLE

GOALS & OBJECTIVES

Goal 1: To know biblical narrative as God's Word to humanity

Objectives:

Understand the creation and why it is important

1. Know how to defend against those who deny creation
2. Describe the fall of man and the existence of sin and death
3. Explain redemption and why Jesus is the Savior of the World
4. Understand the role of the Holy Spirit and the consummation of the second coming of Jesus

Goal 2: To know biblical books and people

Objectives:

Know Old testament stories and how they connect to New Testament text

1. Describe the major Jewish groups and offices at the time of Acts
2. Name some of the problems that the early church
3. Distinguish between apostles and disciples
4. Explain how the early church was persecuted

Goal 3: To understand the role of the Church

Objectives:

1. Know and be able to explain the Gospel to others
2. Explain the importance of baptism
3. State a personal testimony clearly
4. Understand why participating in church is important

Goal 4: To experience the Holy Spirit working in our lives

Objectives:

1. Understand our conversion not just in theory but be transformed by God
2. Know the fruit of the spirit and how God is the author of all that is good
3. Know biblical words and be able to explain them to others
4. See how God is working in the entire world
5. Understand the arguments Paul put forth in his various trials
6. Learn spiritual disciplines and make spiritual goals
7. Trust God with our lives

10TH GRADE

LANGUAGE ART

GOALS & OBJECTIVES

English Literature

Goal 1: To use their knowledge and understanding of key ideas and details in both literature and informational texts.

Objectives:

1. Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
2. Determine a central idea of a text and analyze its development over the course of the text.
3. Analyze how the author unfolds an analysis or series of ideas or events, including the order in which the points are made, how they are introduced and developed, and the connections that are drawn between them.

Goal 2: To use their knowledge of word origins and word relationships, to determine the meaning of specialized vocabulary and to understand the precise meaning of grade-level-appropriate words in both literature and informational texts.

Objectives:

1. Read aloud narrative and expository text fluently and accurately and with appropriate pacing, intonation, and expression.
2. Identify and interpret figurative language and words with multiple meanings.
3. Recognize the origins and meanings of frequently used foreign words in English and use these words accurately in speaking and writing.
4. Monitor informational texts for unknown words or words with novel meanings by using word, sentence, and paragraph clues to determine meaning.
5. Interpret words and phrases as they are used in a text, including determining figurative meanings.

Goal 3: To read and understand grade-level-appropriate material.

Objectives:

1. Determine theme or central ideas of a text
2. Analyze how and why individuals, events, and ideas develop and interact over the course of a text
3. Read and comprehend complex literary and informational texts independently and proficiently
4. Cultivate understanding of story elements
5. Assess point of view or purpose to show how it shapes the content and style of a text
6. Gain a basic understanding and appreciation of Shakespeare's life, his work, and his world
7. Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of text relate to each other and the whole

Goal 3: To integrate knowledge and ideas.

Objectives:

1. Analyze various accounts of a subject told in different mediums
2. Analyze how and why individuals, events, and ideas develop and interact over the course of a text.
3. Analyze how an author draws on and transforms source material in a specific work

10TH GRADE

LANGUAGE ART

GOALS & OBJECTIVES

Writing

Goal 1: To write clear, coherent, and focused essays.

Objectives:

1. Choose the form of writing that best suits the intended purpose.
2. Create multiple-paragraph expository compositions:
 - Engage the interest of the reader and state a clear purpose.
 - Develop the topic with supporting details and precise verbs, nouns, and adjectives to paint a visual image in the mind of the reader
 - Conclude with a detailed summary linked to the purpose of the composition
3. Use a variety of effective and coherent organizational patterns, including comparison and contrast; organization by categories; and arrangement by spatial order, order of importance, or climactic order
4. Revise writing to improve the organization and consistency of ideas within and between paragraphs

Goal 2: To write different types of texts for different purposes.

Objectives:

1. To write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content.
 - Develop the topic with well-chosen, relevant, and sufficient facts, extended definitions, concrete details, quotations, or other information and examples appropriate to the audience's knowledge of the topic.
 - Use appropriate and varied transitions to link the major sections of the text, create cohesion, and clarify the relationships among complex ideas and concepts.
 - Use precise language and domain-specific vocabulary to manage the complexity of the topic.
 - Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing. Provide a concluding statement or section that follows from and supports the information or explanation presented
2. Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details, and well-structured event sequences.
 - Engage and orient the reader by setting out a problem, situation, or observation, establishing one or multiple point(s) of view, and introducing a narrator and/or characters; create a smooth progression of experiences or events.
 - Use narrative techniques, such as dialogue, pacing, description, reflection, and multiple plot lines, to develop experiences, events, and/or characters. To develop and justify the interpretation through sustained use of examples and textual evidence
 - Use a variety of techniques to sequence events so that they build on one another to create a coherent whole.
 - Use precise words and phrases, telling details, and sensory language to convey a vivid picture of the experiences, events, setting, and/or characters.
 - Provide a conclusion that follows from and reflects on what is experienced, observed, or resolved over the course of the narrative.

10TH GRADE

LANGUAGE ART

GOALS & OBJECTIVES

Goal 3: To write arguments to support claims in an analysis of substantive topics and/or write arguments to support claims in an analysis of substantive topics or texts, texts, using valid reasoning and relevant and sufficient evidence.

Goal 4: Research to build and present knowledge.

Objectives:

1. Conduct short as well as more sustained research projects.
2. Gather relevant information from multiple authoritative print and digital sources
3. Draw evidence from literary or informational texts to support analysis, reflection, and research.

Goal 5: Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

Language

Goal 1: To write with a command of standard English conventions appropriate to this grade level.

Objectives:

1. Use parallel structure.
2. Use various types of phrases (noun, verb, adjectival, adverbial, participial, prepositional, absolute) and clauses (independent, dependent; noun, relative, adverbial) to convey specific meanings and add variety and interest to writing or presentations.
3. Use a semicolon (and perhaps a conjunctive adverb) to link two or more closely related independent clauses.
4. Use a colon to introduce a list or quotation.
5. Spell correctly.

Goal 2: To apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

Goal 3: To determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade level reading and content, choosing flexibly from a range of strategies.

Goal 4: To acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

10TH GRADE

LANGUAGE ART

GOALS & OBJECTIVES

Listening and Speaking Skills

Goal 1: To deliver focused, coherent presentations that convey ideas clearly and relate to the background and interests of the audience.

Objectives:

1. Relate the speaker's verbal communication to the nonverbal message (e.g., posture, gesture)
2. Identify the tone, mood, and emotion conveyed in the oral communication
3. Restate and execute multiple-step oral instructions and directions
4. Select a focus, an organizational structure, and a point of view, matching the purpose, message, occasion, and vocal modulation to the audience
5. Emphasize salient points to assist the listener in following the main ideas and concepts
6. Support opinions with detailed evidence and with visual or media displays that use appropriate technology
7. Use effective rate, volume, pitch, and tone and align nonverbal elements to sustain audience interest and attention
8. Analyze the use of rhetorical devices for intent and effect

Goal 2: To initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade level topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.

Goal 3: To integrate multiple sources of information presented in diverse media or formats (e.g., visually, quantitatively, orally) evaluating the credibility and accuracy of each source.

Goal 4: To evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.

Goal 5: To present information, findings, and supporting evidence clearly, concisely, and logically (using appropriate eye contact, adequate volume, and clear pronunciation) such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose (e.g., argument, narrative, informative, response to literature presentations), audience, and task.

Goal 6: To make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.

Goal 7: To adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.

10TH GRADE

MATH

GOALS & OBJECTIVES

Algebra 1

Goal 1: To work with algebraic expressions

Objectives:

1. Use variable
2. Know the order of operations
3. Use exponential notation
4. Use properties of numbers in algebra
5. Add, subtract, multiply and divide real numbers
6. Write expressions and evaluate formulas
7. Use the distributive property

Goal 2: To calculate and solve multi-step equations and inequalities

Objectives:

1. Solve two-step and multi-step equations
2. Solve equations with variables on both sides
3. Use ratios
4. Set up and solve proportion problems
5. Set up equations for problem solving
6. Solve mixture problems
7. Graph inequalities
8. Solve inequalities with addition, subtraction, multiplication, and division
9. Solve multi-step and compound inequalities

Goal 3: To work with graphs and functions

Objectives:

1. Graph on the coordinate plane
2. Identify the relation of a function
3. Identify function rules from tables and charts
4. Write a function rule
5. Solve problems using direct variation, inverse variation, and inductive and deductive reasoning

Goal 4: To solve linear equations and graphs

Objectives:

1. Identify the rate of change and slope
2. Know and utilize slope-intercept form
3. Know and utilize point-slope form
4. Identify parallel and perpendicular lines

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MATH

GOALS & OBJECTIVES

Goal 5: To understand systems of equations and inequalities

Objectives:

1. Solve systems by graphing
2. Solve systems by using substitution
3. Solve systems using elimination
4. Understand the applications of linear systems
5. Solve and graph linear inequalities

Goal 6: To use exponents, polynomials, and factoring to solve equations

Objectives:

1. Solve problems containing zero and negative exponents
2. Apply scientific notation
3. Solve multiplication properties of exponents
4. Solve division properties of exponents
5. Add and subtract polynomials
6. Multiply and factor polynomials
7. Multiply binomials
8. Identify special cases
9. Factor trinomials of different types, factor special cases, and factor by grouping

Goal 7: To learn quadratic equations and functions

Objectives:

1. Explore quadratic graphs
2. Identify quadratic functions
3. Find and estimate square roots
4. Solve quadratic equations
5. Complete the square
6. Use the quadratic formula and the discriminant

Goal 8: To work with radical expressions and equations

Objectives:

1. Simplify radicals
2. Use the Pythagorean Theorem
3. Solve operations with radical expressions
4. Solve radical equations
5. Graph square root functions

Goal 9: To work with rational expressions and equations

Objectives:

1. Simplify rational expressions
2. Multiply and divide rational expressions
3. Divide polynomials
4. Add and subtract rational expressions
5. Solve rational equations

10TH GRADE

MATH

GOALS & OBJECTIVES

Geometry

Goal 1: To review the use of the tools of geometry

Objectives:

1. Learn patterns and inductive reasoning
2. Make drawings, nets, and other models
3. Identify points, lines, and planes
4. Identify segments, rays, parallel lines, and planes
5. Measure segments and angles
6. Make basic constructions
7. Review coordinate planes
8. Measure perimeter, circumference, and area

Goal 2: To learn geometric reasoning and how to construct a proof

Objectives:

1. Learn conditional statements
2. Learning bi-conditionals and definitions
3. Use deductive reasoning
4. Review reasoning in algebra
5. Prove angles congruent

Goal 3: To work with parallel and perpendicular lines and their properties

Objectives:

1. Identify properties of parallel lines
2. Prove lines parallel
3. Use angle-sum theorems
4. Plot lines in a coordinate plane
5. Plot slopes of parallel and perpendicular lines
6. Construct parallel and perpendicular lines

Goal 4: To learn the properties of triangles

Objectives:

1. Identify congruent triangles
2. Prove triangle congruence
3. Use congruent triangles for problem solving
4. Develop theorems of triangle congruence using isosceles, equilateral, and right triangles
5. Identify midsegments and bisectors of triangles
6. Learn concurrent lines, medians, and altitudes
7. Learn inverses, contrapositives, and indirect reasoning
8. Prove inequalities in triangles

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MATH

GOALS & OBJECTIVES

Goal 5: To learn the properties of quadrilaterals

Objectives:

1. Classify quadrilaterals
2. Identify properties of parallelograms
3. Prove quadrilaterals are parallelograms
4. Identify special parallelograms
5. Construct proofs using coordinate geometry

Goal 6: To use similarity to construct proofs

Objectives:

1. Review ratios and proportions
2. Identify similar polygons
3. Prove triangle similarity
4. Prove the similarity of right triangles
5. Prove triangle proportions

Goal 7: To learn the properties of right triangles and introduce trigonometry

Objectives:

1. Review the Pythagorean Theorem and learn its converse
2. Apply theorem to special right triangles
3. Learn the tangent, sine and cosine ratios
4. Measure angles of elevation and depression
5. Calculate vectors

Goal 8: To identify different transformations

Objectives:

1. Identify and find the following—
 - Translations
 - Reflections
 - Rotations
 - Symmetry
 - Dilations
 - Tessellations and Compositions

Goal 9: To calculate area, surface area, and volume

Objectives:

1. Calculate areas of parallelograms, triangles, trapezoids, rhombuses, kites, and regular polygons
2. Identify the perimeters and areas of similar figures
3. Use trigonometry and area
4. Measure circles, arcs, and sectors
5. Identify space figures and cross sections
6. Measure the surface area of prisms, cylinders, pyramids, and cones
7. Find the volumes of prisms, cylinders, pyramids, and cones
8. Measure the areas and volumes of spheres and similar solids

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GRADE**

MATH

GOALS & OBJECTIVES

Goal 10: To work with the properties of circles

Objectives:

1. Recognize tangent lines, chords, and arcs
2. Use inscribed angles
3. Measure angles and segment lengths as applied to circles
4. Construct circles in the coordinate plane

10TH GRADE

WORLD HISTORY

GOALS & OBJECTIVES

The Modern World

Goal 1: Review and connect Ancient, Medieval, American, and European History through the Enlightenment

Objectives:

1. Explain how democracy (and other forms of government), political, and ethical ideas developed in the Fertile Crescent, ancient Greece, colonial America, England, France, Russia, and other European cultures. Identify how government forms alternated from absolute monarchy to republic.

Goal 2: Absolutism and Revolution (1550 – 1850)

Objectives:

1. Outline the causes and results of the Thirty Years' War, how Austria and Prussia emerged as great powers, and explain the steps Peter the Great took to modernize Russia
2. Describe the relationship between Parliament and the monarchy under the Tudors and Stuarts, how English government developed after the English Civil war, the cause of the Glorious Revolution and the ideas contained in the English Bill of Rights, and the characteristics of limited monarchy and constitutional government in England
3. Describe how science led to the Enlightenment, explain the political philosophies of Hobbes, Locke, Montesquieu, and Rousseau, summarize the economic ideas of the physiocrats and Adam Smith, describe how Enlightenment ideas spread and influence the arts, and understand the role of Enlightenment despots
4. Describe how Britain became a global power, understand the events and ideas leading up to the American revolution (including the impact of the Enlightenment), summarize key events of the American revolution, identify the political and legal ideas in the Declaration of Independence and the United States Constitution
5. Describe how Britain became a global power, understand the events and ideas leading up to the American revolution, including the impact of the Enlightenment, summarize key events of the American revolution, identify the political and legal ideas in the Declaration of Independence and the United States Constitution
6. Explain why the French Revolution entered a more radical phase, understand how radicals abolished the French monarch, analyze the causes and course of the Reign of Terror, describe France under the Directory, identify how the French Revolution changed life in France
7. Describe how Napoleon Bonaparte rose to power, explain the impact of Napoleon and the Napoleonic Wars, identify the reasons for Napoleon's fall from power, understand how the Congress of Vienna tried to restore order to Europe

10TH GRADE

WORLD HISTORY

GOALS & OBJECTIVES

Goal 3: World War I and the Russian Revolution (1914 – 1924)

Objectives:

1. Students understand how imperialism, nationalism, and militarism pushed Europe closer to war, identify the key event that sparked WWI, and trace how the alliance system drew nations into the war
2. Understand how trench warfare led to a stalemate on the Western front, identify and describe the impact of modern military technology on the fighting, outline the course of the war on multiple European fronts, and explain how WWI was a global conflict
3. Students describe how WWI became a total war, explain how U.S. entry into the war led to an Allied victory, list the effects of WWI in terms of financial costs, high casualty rates, and political impact, describe the issues at the Paris Peace Conference and the impact of Woodrow Wilson's Fourteen Points, and summarize the terms and impact of the Treaty of Versailles
4. Explain the cause of the February (March) Revolution, describe the goals of Lenin and the Bolsheviks in the October Revolution, summarize the outcome of the civil war in Russia, and analyze how Lenin built a Communist state in the Soviet Union

Goal 4: World War II (1930 – 1945)

Objectives:

1. Describe how the Western democracies respond to aggression, explain the significance of the Spanish Civil War, and understand how German aggression led Europe into WWII
2. Trace the course of German aggression and British resistance in Europe, describe the Nazi invasion of the Soviet Union, and explain how Japanese imperialism and the attack on Pearl Harbor brought the United States into the war
3. Identify the roots of Nazi persecution of the Jews, describe how the Nazis carried out a program of genocide, describe the various acts of Jewish resistance, and summarize the response of the Allies to the Holocaust
4. Understand how nations committed all of their resources to fighting WWII, explain how the Allies began to push back the Axis powers in Europe and the Pacific, and describe the Normandy landings and the Allied advance toward Germany
5. Understand the reasons for the final defeat of the Nazis, describe how the Allies began to push back the Japanese in the Pacific, explain how the dropping of the atomic bomb ended the war, describe the aftermath of WWII and the founding of the United Nations

10TH GRADE

SCIENCE

GOALS & OBJECTIVES

Biology

Goal 1: To gain an understanding of the development from molecules to organisms- their structures and processes.

Objectives:

1. Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins, which carry out the essential functions of life through systems of specialized cells.
2. Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.
3. Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.
4. Use a model to illustrate the role of cellular division (mitosis) and differentiation in producing and maintaining complex organisms.
5. Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy.
6. Construct and revise an explanation based on evidence for how carbon, hydrogen, and oxygen from sugar molecules may combine with other elements to form amino acids and/or other large carbon-based molecules.
7. Use a model to illustrate that cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are formed, resulting in a net transfer of energy.

Goal 2: To gain an understanding of how ecosystems interactions, energy and dynamics.

Objectives:

1. Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.
2. Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales.
3. Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.
4. Use mathematical representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystem.
5. Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere.
6. Evaluate claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.
7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.*
8. Evaluate evidence for the role of group behavior on individual and species' chances to survive and reproduce.

10TH GRADE

SCIENCE

GOALS & OBJECTIVES

Goal 3: To gain an understanding of inheritance and variation of traits

Objectives:

1. Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.
2. Make and defend a claim based on evidence that inheritable genetic variations may result from (1) new genetic combinations through meiosis, (2) viable errors occurring during replication, and/or (3) mutations caused by environmental factors.
3. Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.

Goal 4: To gain an understanding of unity and diversity.

Objectives:

1. Construct an explanation based on evidence that the process of evolution primarily results from four factors: (1) the potential for a species to increase in number, (2) the heritable genetic variation of individuals in a species due to mutation and sexual reproduction, (3) competition for limited resources, and (4) the proliferation of those organisms that are better able to survive and reproduce in the environment.
2. Apply concepts of statistics and probability to support explanations that organisms with an advantageous heritable trait tend to increase in proportion to organisms lacking this trait.
3. Construct an explanation based on evidence for how natural selection leads to adaptation of populations.
4. Evaluate the evidence supporting claims that changes in environmental conditions may result in (1) increases in the number of individuals of some species, (2) the emergence of new species over time, and (3) the extinction of other species.
5. Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity.*

Investigation and Experimentation

Goal 1: To understand the scientific process.

Objectives:

1. To develop a hypothesis
2. To select and use appropriate tools and technology to perform tests, collect data, and display data
3. To construct appropriate graphs from data and develop qualitative statements about the relationships between variables
4. To communicate the steps and results from an investigation in written reports and oral presentations
5. To recognize whether evidence is consistent with a proposed explanation
6. To form and explain the conclusion reached through the experimentation process
7. Present findings in an oral presentation