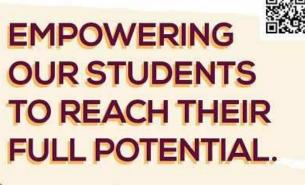
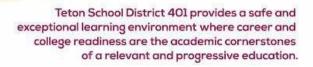
## Teton 401

School District Vertical Alignment Guide Grade Level Outcomes & Curricular Supports



## Objectives

- STUDENT ACHIEVEMENT
- SAFETY
- FISCAL RESPONSIBILITY
- COMMUNITY RELATIONS
   FACILITIES





Outcomes/G rade Level	Kindergarten	First Grade	Second Grade	Third Grade
Reading/Writ ing/English	Students will be able to write for 15-20 minutes. Students will be able to read at a level J or 1.9 as measured by Guided Reading level J or AR respectively. Students will be able to read for 15 minutes on their own. Students are able to publish a piece by editing and revising with adult support. Students will be able to use capitalization standards in writing.	Students will be able to write for 15-20 minutes Students will be able to read at a level J or 1.9 as measured by Guided Reading level J or AR respectively. Students will be able to read for 15 minutes on their own. Students are able to publish a piece by editing and revising with adult support. Students will be able to use capitalization standards in writing.	Students will be able to add to their first grade knowledge of writing by supplying reasons, using linking words, providing definitions, using details to describe actions, thoughts and feelings, providing a concluding statement Students will be about to create Opinion, Narrative and Informational writing Students will be able to revise, edit, and publish writing with the Guidance from Adults Students will be able to write for a thirty minute duration. Students will be introduce on how to read from an online source.	Students will be able to use decoding strategies: Chunking, prefixes, suffixes, intro multisyllabic words Students will be able to demonstrate basic understanding of comprehension strategies & academic vocabulary including: plot, setting, characters, predictions, inferences, connections Students will be able to Identify key details, sequence of events Students will be able to read independently, read with endurance and utilize comprehension skills. Students be able to independently read a complete level-appropriate novel Students will be able to navigate the text structure of information text and identify important details and main idea of information text Students will be able to write fluently for 35 minutes in one sitting with at least 1/2 page writing Students will have exposure to reading text from an online source
ELA Curricular Supports	Reading: Houghton Mifflin	DES Reading: Houghton Mifflin TES/VES Lucy Calkins Units of Study: Heinemann	Reading: Houghton Mifflin	DES Reading: Houghton Mifflin TES Lucy Calkins Units of Study: Heinemann VES: Power Reading Workshop: Laura Candler
Math	Students will be able to subitize numbers 1-10 Students will be able to count on for example 8 the next number is 9. Start at the the number and then count up. Students will be able to form numbers 1-10 correctly. Students will be able to count sequentially 0-100	Students will be able to add and subtract within 20. Students will begin to understand whole numbers and place values. Students will be able to group in tens and ones. Students will begin to measure lengths Students will be able to compose and decompose 2-D and 3-D figures. They	Students will be able to to add, tell time and money skills - counting by 5's 10's etc Students will increase their understanding of base-ten notation. Students will build fluency with addition and subtraction Students will use standard units of measure Students will be able to describe and analyze shapes.	Students will develop an understanding of multiplication and division, while using strategies to multiply and divide within 100. Students will develop an understanding of fractions as numbers. Students will begin to utilize the structure of rectangular arrays and of areas. Students will be able to describe and

	Students will be able to add	will be able to combine shapes to		analyze two dimensional shapes.
	and subtract up to 10, with	make new shapes and recognize		Students will be able to solve problems
	fluency to 5.	them from various perspectives and		involving the four operations and identify
		orientations and describe their		and explain patterns in arithmetic.
		attributes.		
Math				
Curricular	Engaged NY	Engaged NY	Engaged NY	Engaged NY
Supports				g.g.g.u
Cupports				
	Plan and conduct an		Plan and conduct an investigation to describe	Plan and conduct an investigation to
	investigation to compare the	concepts through the use of non	and classify different kinds of materials by	provide evidence of the effects of
	effects of different strengths	fiction books. Students will write	their observable properties	balanced and unbalanced forces on the
	or different directions of	Informational Texts about scientific	Analyze data obtained from testing different	motion of an object
	pushes and pulls on the	concepts. Students will be able to	materials to determine which materials have	Make observations and/or
	motion of an object.	make observations using all their	the properties that are best suited for an	measurements of an object's motion to
	Analyze data to determine if a	-	intended purpose	provide evidence that a pattern can be
	design solution works as	will begin to learn how to measure.	Make observations to construct an	used to predict future motion
	intended to change the	Students will be able to follow	evidence-based account of how an object	Ask questions to determine cause and
	speed or direction of an	multi-step directions. Students will	made of a small set of pieces can be	effect relationships of electric or
	object with a push or a pull	acquire a basic understanding of the	disassembled and made into a new object.	magnetic interactions between two
	Make observations to	life cycle. Plan and conduct	Construct an argument with evidence that	objects not in contact with each other
	determine the effect of	investigations to provide evidence	some changes caused by heating or cooling	Define a simple design problem that can
	sunlight on Earth's surface	that vibrating materials can make	can be reversed and some cannot.	be solved by applying scientific ideas
	Use tools and materials to	sound and that sound can make	Plan and conduct an investigation to	about magnets
	design and build a structure	materials vibrate. Make observations	determine if plants need sunlight and water	Construct an argument that some
	that will reduce the warming	to construct an evidence-based	-	animals form groups that help members
Science	-		to grow	survive
Science	effect of sunlight on an area.	account that objects in darkness can	Develop a simple model that mimics the	
	Use observations to describe	be seen only when illuminated. Plan	function of an animal in dispersing seeds or	Analyze and interpret data to provide
	patterns of what plants and	and conduct investigations to	pollinating plants.	evidence that plants and animals have
	animals (including humans)	determine the effect of placing objects	Make observations of plants and animals to	traits inherited from parents and that
	need to survive	made with different materials in the	compare the diversity of life in different	variation of these traits exists in a group
	Use classification supported	path of a beam of light. Use tools and	habitats	of similar organisms.
	by evidence to differentiate	materials to design and build a device	Use information from several sources to	Use evidence to support the explanation
	between living and nonliving	that uses light or sound to solve the	provide evidence that Earth events can occur	that traits can be influenced by the
	items.	problem of communicating over a	quickly or slowly	environment.
	Use and share observations	distance. Use materials to design a	Compare multiple solutions designed to slow	Represent data in tables and graphical
	of local weather conditions to	solution to a human problem by	or prevent wind or water from changing the	displays to describe typical weather
	describe patterns over time,	mimicking how plants and/or animals	shape of the land	conditions expected during a particular
	which includes the 4 seasons	use their external parts to help them	Develop a model to represent the shapes	season
	Construct an argument	survive, grow, and meet their needs.	and kinds of land and bodies of water in an	Obtain and combine information to
	supported by evidence for	Read texts and use media to	area.	describe climates in different regions of
	how plants and animals	determine patterns in behavior of	Obtain information to identify where water is	theworld
	(including humans) can	parents and offspring that help	found on Earth and that it can be solid, liquid	Make a claim about the merit of a design
	change the environment to	offspring survive. Develop models to	or gas.	solution that reduces the impacts of a

	meet their needs Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.	describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death. Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. Use observations of the sun, moon, and stars to describe patterns that can be predicted. Make observations at different times of year to relate the amount of daylight to the time of year.		weather-related hazard
Science Curricular Supports	No Text: Teacher Supplemented	No Text: Teacher Supplemented	DES Science: Hardcourt TES/VES STEM projects, a Foss Weather and Air Project, Scholastic News, USDA Common Core Nutrition Unit, Project Based: Arctic Study (LG)	DES: Science: Hardcourt VES/TES: National Geographic
Social Studies	Students will be able to use a timeline to show personal and family history. Students will have a basic understanding of maps and globes, and their basic features like legends and keys. Students will be able to identify north, south, east and west. Students will be able to identify basic human needs: food, clothing, shelter and how to meet those needs.	Students will be able to use a timeline to show personal and family history. Students will have a basic understanding of maps and globes, and their basic features like legends and keys. Students will be able to identify north, south, east and west. Students will be able to identify basic human needs: food, clothing, shelter and how to meet those needs.	Students will be able to identify various landforms and bodies of water on a map. They will also be able to use cardinal directions. Students will be able to compare how environmental living conditions affect the clothing and lifestyle in various parts of the world. Students will be introduced to various economic principles like income, goods and services, and producers and consumers. Students will be able to explain why rules are necessary at home and school. Students will be able to identify who makes rules and why they are important. Students will be able to recite and articulate the meaning of the Pledge of Allegiance.	Students will be able to investigate the history of their community. Students will be able to identify various points using coordinate on a map like: The United States, the state of Idaho, the capital of Idaho- Boise. Students will expand their knowledge of economics, comparing private vs. public property, natural resources, labor and trade. Students will be able to discuss why communities have laws and are introduced to how people are elected. Students will be able to think globally and how their community is part of a larger world.
SS Curricular Supports	No Text: teacher Supplemented	No Text: Teacher Supplemented Scholastic News	DES: We Live Together- The McGraw-Hill Companies, Inc. TES/VES Teacher Supplemented	DES: Communities-The McGraw-Hill Companies, Inc. TES/VES: none reported

Outcomes/Grade Level	Fourth Grade	Fifth Grade	
Reading/Writing/ English	Students will be able to read fluently with attention to accuracy, and using appropriate expression and rate. Students will be able to read with stamina and use various reading strategies to help comprehension. Students will be able to summarize, draw inferences from the text and use text-based evidence. Students will be able to analyze a text, and use text-based evidence Students will be able to analyze a text, and use text-based evidence Students will be able to consistently use complete sentences with capital letters and end punctuation. Students will be able to write independently for 45 minutes producing either 1 pg typed or 2 pages handwritten Students will publish a narrative, informational and opinion writing piece. Students will use a variety of sources of text including Internet based informational text.	<ul> <li>Students will be able to produce a 5 paragraph written work in a 50 Minusetting.</li> <li>Quoting Accurately from the text in order to provide evidence.</li> <li>Can find and write the main idea and key details in a text.</li> <li>Can summarize a text.</li> <li>Compare and Contrast Stories and Story Elements- Reading</li> <li>Opinion, Narrative and Informational reading and writing.</li> <li>Compare and contrast text structure in informational and narrative text</li> <li>Consistent use of capitals, punctuation and commas and understanding or structure of complete sentences.</li> </ul>	
ELA Curricular Supports	Houghton Mifflin Reading Units of Study for Writer's Workshop: Heinemann	Houghton Mifflin Reading Units of Study for Writer's Workshop	
Math	Students will be able to use the standard algorithm to add and subtract multi-digit numbers with regrouping Students will be able to fluently multiply multi-digit whole numbers Students will develop a foundational understanding of dividing whole numbers using pictures or models Students will apply knowledge of place value to work with whole numbers up to 1 million. Students will identify and be able to produce equivalent fractions and begin completing operations (+,-, and whole number multiplication) with fractions Students will be able to draw and identify lines and angles and classify shapes using the properties of lines and angles.	Students will be able to reason abstractly and quantitatively. Students will be able to add and subtract fractions with fluency. Students will be able to begin multiplying and dividing fractions. Students will be extending division and multiplication involving multi-digit numbers. integrating decimal fractions into the place value system. Students will begin to understand the concept of volume. Students will be able to classify geometric figures. Students are able to explain their reasoning in complete sentences orally or written.	
Math Curricular Supports	Engaged NY	Engaged NY	
Science	Use evidence to construct an explanation relating the speed of an object to the energy of that object Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents. Ask questions and predict outcomes about the changes in energy that occur when objects collide. Apply scientific ideas to design, test, and refine a device that converts	change that occurs when heating, cooling, or mixing substances, the total weight	

	operate from one form to another	Conduct an investigation to determine whether the mixing of two or mare
	energy from one form to another. Develop a model of waves to describe patterns in terms of amplitude	Conduct an investigation to determine whether the mixing of two or more substances results in new substances.
	and wavelength and that waves can cause objects to move	Support an argument that the gravitational force exerted by Earth on objects is
	Develop a model to describe that light reflecting from objects and	directed down.
	entering the eye allows objects to be seen	Use models to describe that energy in animals' food (used for body repair,
	Generate and compare multiple solutions that use patterns to transfer	growth, motion, and to maintain body warmth) was once energy from the sun.
	information. Construct an argument that plants and animals have internal and	Support an argument that plants get the materials they need for growth chiefly from air and water.
		Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.
	•	Use evidence to construct an explanation for how the variations in characteristics
	information through their senses, process the information in their brain,	among individuals of the same species may provide advantages in surviving,
	and respond to the information in different ways.	finding mates, and reproducing.
	Develop a model to describe the movement of matter among plants,	Construct an argument with evidence that in a particular habitat some organisms
	animals, decomposers, and the environment.	can survive well, some survive less well, and some cannot survive at all.
	Identify evidence from patterns in rock formations and fossils in rock	Make a claim about the merit of a solution to a problem caused when the
	layers for changes in a landscape over time to support an explanation for changes in a landscape over time.	environment changes and the types of plants and animals that live there may change.
	Make observations and/or measurements to provide evidence of the	Support an argument that differences in the apparent brightness of the sun
	effects of weathering or the rate of erosion by water, ice, wind, or	compared to other stars is due to their relative distances from the Earth.
		Represent data in graphical displays to reveal patterns of daily changes in length
	Obtain and combine information to describe that energy and fuels are	and direction of shadows, day and night, and the seasonal appearance of some
	derived from natural resources and their uses affect the environment.	stars in the night sky.
	Generate and compare multiple solutions to reduce the impacts of	Develop a model using an example to describe ways the geosphere, biosphere,
	natural Earth processes on humans.	hydrosphere, and/or atmosphere interact.
		Describe and graph the amounts and percentages of water and fresh water in
		various reservoirs to provide evidence about the distribution of water on Earth.
		Support Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.
Science		
Curricular	Science: Hardcourt	Science: Hardcourt
Supports		
	Students will be able to discuss the various American Indian Tribes in	Students will analyze the historical events that led to the founding of the United
	the state of Idaho.	States including: exploration, colonization, revolution, expansion and civil war
	Students will be able to describe the physical regions of Idaho.	Students will be able to identify the 3 branches of Government
Social Studies	Students will be able to analyze how Westward Expansion impacted	Students will be able to recall all 50 states and identify them correctly.
	Idaho. Students will be able to describe the different groups traveling through	Students will be able to identify the founding documents of the United States.
	and settled in Idaho as a result of Westward Expansion.	Students will be able to use multiple sources to write a summary.
	and settled in fudito us a result of westward Expansion.	
SS Curricular		A History of US- Joy Hakim US Studies Weekly- Studies Weekly
Supports	A Rendezvous With Idaho History: Sterling Ties Publications	Assorted supporting Texts (Around the World in 80 Days, Lincoln a
Supports		Photobiography, etc)

Outcomes/ Grade Level	Sixth Grade	Seventh Grade	Eighth Grade
Reading/W riting/Engli sh	Students will be able to write a five paragraph essay with topic sentence and relevant explanation. Students will be able to write to a specific audience and purpose. Students will be able to find and use evidence to support a claim. Students will be able to utilize graphic organizers and other tools to organize ideas and create persistence in the writing process. Students will be able to consistently use correct capitalization, punctuation and word use. Students will be able to read and comprehend at grade level. Students will be able to master definitions of Literary Elements and identify them and their use in text Students will be able to restate question in response and cite evidence both implicitly and explicitly in MLA format Students will be able to summarize all major events chronologically using transition words	Students will be able work through writing process, using graphic organizers to organize idea Students will continue to use correct capitalization, punctuation and word use while expanding academic vocabulary. Students will be able to independently find evidence to support claim/position/stance. Students will be able use technology to collaborate and discuss on-line Students will be able read and comprehend at grade level Students will be able cite several pieces of evidence in responses Students will be able identify and analyze Literary Elements and their use in text Students will be able use notes to participate in informed discussions of literary analysis Students will be able summarize and analyze the events/major points of a text	Students will be able to demonstrate confidence in class and group discussions, using academic language and complete sentences. Students will be able demonstrate grade level reading ability and comprehension. Students will be able use MLA format accurately and with 100% consistency. Students will be able demonstrate grade level writing ability, including development of ideas, paragraph structure, five paragraph essay structure, employment of standard writing conventions, and use of proper grammar. Students will be able to collaborate and discuss with small and large groups to convey ideas Students will be able to analyze the Literary Elements and their impact on a text Students will be able to seamlessly cite textual evidence without the use of instructional supports.
ELA Curricular Supports	Elements of Literature- Holt The Lightning Thief and Bud, Not Buddy: Engaged NY	Step Up to Writing Voyager Sopris Learning Maupin House Giggles in the Middle Class novel sets	Elements of Language and Step Up to Writing- HOLT Elements of Literature; Various Class Novels, Appreciating Poetry (PH), Myths & Legends (PH) Holt, Prentice Hall and various authors.
Math	Students will be able to fluently add, subtract, divide and multiply fractions Students will be able to apply and extend previous understandings of numbers to the system of rational numbers Students will be able to compute fluently with multi digit numbers and find common factors and multiples Students will be able to solve real world math problems using area, perimeter, surface area, and volume. Students will be able to reason about and solve one variable equations and inequalities Students will develop understanding of statistical variability Students will be able to summarize and describe distributions Students will understand ratio concepts and use ratio reasoning to solve problems Students will be able to apply and extend previous	solve an equations. For examples, $ab$ for $a = -2$ and $b = 3$	8th/Algebra 1Students will be able to use the Order of Operations with expressions and equationsStudents will be able to define, identify and manipulate numbers, fractions and decimals.Students will have a moderate understanding of variables and what they representStudents will be able to confidently solve and analyze 1 and 2-step equations and inequalities & and have basic understanding of multi-step equations/inequalitiesStudents will be able to identify "like terms" and how to simplify expressionsStudents can convert ratios and percents and can set up and solve proportionsStudents will be able to properly take notes and complete homework in an timely & organized manner Students will be able to interpret word problems, be able to

	understandings of arithmetic to algebraic expressions Students will be able to represent and analyze quantitative relationships between dependent and independent variables Students will be able to explain and execute problem solving strategies	and solve proportions Students will be able to learn and utilize the functions on a scientific calculator Students will be able to describe how to simplify expressions/solve equations and why Students will be able to interpret word problems, be able to construct equations, and analyze their results	construct equations, and analyze their results Students will be able to describe how to simplify expressions/solve equations and why Students will be able to utilize the functions on a scientific calculator
Math Curricular Supports	CMP3 text, sometimes PrenticeHall Course 1,	Connected Mathematics (CMP3) Pearson	Pre-Algebra Algebra 1 Pearson
Science	DRAFTED PS1-MS Matter and Its Interactions (Physical Science, 1st Unit, Middle School) Develop models to describe the atomic composition of simple molecules and extended structures. Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred. Gather and make sense of information to describe that synthetic materials come from natural resources and impact society Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed. Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved. Undertake a design project to construct, test, and modify a device that either releases or absorbs thermal energy by chemical processes Apply Newton's Third Law to design a solution to a problem involving the motion of two colliding objects. Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object. Ask questions about data to determine the factors that affect the strength of electric and magnetic forces Construct and present arguments using evidence to support the claim that gravitational interactions are attractive and depend on the masses of interacting objects. Conduct an investigation and evaluate the experimental design to provide evidence that fields exist between objects exerting forces on each other even though the objects are not in contact. Construct and interpret graphical displays of data to describe the relationships of kinetic energy to the mass of an object and to the speed of an object Develop a model to describe that when the arrangement of objects interacting at a distance	<ul> <li>DRAFTED LS1-MS Molecules to Organisms: Structure and Processes <ul> <li>(Life Science, Unit 1, Middle School)</li> </ul> </li> <li>Conduct an investigation to provide evidence that living things are made of cells; either one cell or many different numbers and types of cells</li> <li>Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.</li> <li>Use argument supported by evidence for how a living organism is a system of interacting subsystems composed of groups of cells.</li> <li>Construct a scientific argument based on evidence to defend a claim of life for a specific object or organism</li> <li>Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.</li> <li>Develop a model to describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as this matter moves through an organism.</li> <li>LS2-MS Ecosystems: Interactions, Energy, and Dynamics (Life Science, Unit 2, Middle School)</li> <li>Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.</li> <li>Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.</li> <li>Develop a model to describe the flow of energy through the trophic levels of an ecosystem.</li> <li>Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem accosystem affect populations.</li> </ul>	DRAFTED ESS1-MS Earth's Place in the Universe (Earth and Space Science, Unit 1, Middle School) Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons. Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system. Analyze and interpret data to determine scale properties of objects in the solar system Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's history. ESS2-MS Earth's Systems (Earth and Space Science, Unit 2, Middle School) Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process. Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales. Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions. Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates. ESS3-MS Earth and Human Activity (Earth and Space Science, Unit 3, Middle School) Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.

	changes, different amounts of potential energy are stored in the system. Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample. Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object . Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave. Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials Integrate qualitative scientific and technical information to support the claim that digitized signals are a more reliable way to encode and transmit information than analog signals.	<ul> <li>LS3-MS Heredity: Inheritance and Variation of Traits (Life Science, Unit 3, Middle School)</li> <li>Develop and use a model to describe why mutations may result in harmful, beneficial, or neutral effects to the structure and function of the organism</li> <li>Develop and use a model to describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation.</li> <li>LS4-MS Biological Adaptation: Unity and Diversity (Life Science, Unit 4, Middle School)</li> <li>Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past.</li> <li>Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer relationships.</li> <li>Analyze displays of pictorial data to compare patterns of similarities in the anatomical structures across multiple species of similar classification levels to identify relationships.</li> <li>Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.</li> <li>Gather and synthesize information about the technologies that have changed the way humans influence the inheritance of desired traits in organisms.</li> <li>Use mathematical representations to support explanations of how natural selection may lead to increases and decreases of specific traits in populations over time.</li> </ul>	Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects. Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment. Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems. Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.
Science Curricular Supports	None Reported	None Reported	None Reported
Social Studies	Students will be able to identify continents, countries, major landforms, climate zones in the Western Hemisphere Students will be able to communicate the various components of culture (religion, language, etc.) and their influence on societies in the Western Hemisphere Students will be able to define and describe the political and economic systems-basic types. Students will be able to provide examples of European	Students will be able to utilize Latitude and Longitude to find locations on a map Students will be able to compare and contrast major religions in the Eastern Hemisphere. Students will be able to identify and locate the major continents, bodies of water and landforms of the Eastern Hemisphere Students will be able to analyze the political/economic systems found in the Eastern Hemisphere	Students will be able to explain, in detail, how the geography of our country influenced the economic development of regions. Students will be able trace and map the beginnings of the thirteen colonies to the problems that inspired them to leave England. Students will be able to use the various acts to articulate the development of democracy. Students will be able to trace the history of relations

SS Curricular Supports	The McGraw-Hill Companies, Inc Discovering Our Past: Western Hemisphere	Discovering Our Past: A History of the World The McGraw-Hill Companies, Inc	charts, databases, and models. Discovering Our Past: A History of the United States The McGraw-Hill Companies, Inc
	influence on Mesoamerican culture. Students will have a basic understanding of how to cite sources using MLA Format. Students will have an understanding of finding and using credible information. Writing Goal: Students will be able to read and use infographics to support their answer to a question.	<ul> <li>Students will be able to describe the major historical events in the different areas of the Eastern Hemisphere</li> <li>Students will have a basic understanding of how to cite sources using MLA Format.</li> <li>Students will have an understanding of finding and using credible information.</li> <li>Students will be able to read and use infographics to support their answer to a question.</li> </ul>	between settlers and Native American from the Pilgrims to the Trail of Tears along with being able to discuss how the problems between settlers and Native Americans reached a crisis point. Students will be able to demonstrate a basic knowledge of the geography of the U.S. Students will be able articulate an understanding of why Europeans wanted to emigrate to the U.S. Students will be able to identify where democratic ideas came from and the Magna Carta. Students will be able to develop and interpret maps, globes,

Outcomes/Gr ade Level	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade
Reading/Writi ng/English	Students will be able to correctly format papers according to MLA requirements Students will be able to write arguments supported by effective text citations and explain the significance of these citations. Students will be able to write entirely in complete sentences and follow grammar rules. Students will be able to read grade-level materials Students will be able to read grade-level lecture notes Students will be able to create paragraphs of multiple lengths. Students will model academic writing in a basic five paragraph essay. Students will demonstrate an understanding of the deeper meaning of fiction and nonfiction text. Students will conduct focused and scholarly research and will create annotated Works Cited pages that strictly adhere to MLA guidelines. Students will be able to use shared Google Docs and other Google applications. Students will employ word processing and keyboarding skills.	Students will be able to identify and explain a symbolic element in a work of literature Students will be able to argue a position using multiple research sources combined with the learner's own reasoning Students will be able to appreciate literature in its historical context Students will be able to analyze and discuss literature using all of the standard literary terms comfortably and accurately and appropriately Students will be able to identify and discuss the universal nature of themes/ideas found in literature Students will continue to build on their technology usage from previous years, including shared Google Docs, other Google applications, and online collaboration. Students will use technology to interface with teachers regarding assignments, due dates, and schedules. Students will conduct scholarly research and incorporate their research into a formal argumentative paper of 3-4 pages in length.	Students will be able to form complex thesis statements. Students will be able to accurately use words from their formal vocabulary study. Students will be able to explain the role valid research plays in research-based writing. Students will be able to accurately peer edit, moving beyond basic writing fundamentals to more stylistic concerns. Students will be able to identify and incorporate textual evidence and explain its purpose. Students will continue to build on their technology usage from previous years, including shared Google Docs, other Google applications, and online collaboration. Students will employ word processing and keyboarding skills. Students will use technology to interface with teachers regarding assignments, due dates, and schedules. Students will conduct scholarly research and will incorporate their research into a formal argumentative paper of 4-5 pages in length.	Student will be able to recognize and explain the history of the English language and how it relates to literature. Student will be able to recognize and explain poetic structure in Classic British literature by genre: poetry, fiction, nonfiction, plays, and short stories. Student will be able to annotate/explicate nonfiction and fiction writing. Student will be able to critically analyze a piece of writing and express that analysis in writing. Student will be able to read and comprehend expository and other nonfiction texts. Student will be able to read and comprehend the validity of deductive arguments. Student will be able to analyze how point of view informs a text. Student will be able to accurately express ideas in a logical, linear manner. Students will continue to build on their technology usage from previous years, including shared Google Docs, other Google applications, and online collaboration. Students will employ word processing and keyboarding skills. Students will use technology to interface with teachers regarding assignments, due dates, and schedules. Students will conduct original scholarly research and will incorporate their research into an argumentative paper of 6-8 pages in length.
ELA Curricular Supports	Elements of Literature HOLT	Advancing Word Power	The Riverside Reader The Norton Introduction to Literature - Portable	Principles of Speech including The Speaker and Course Supplement Fountainhead Press and Department of Communication, Media, and Persuasion at Idaho State University Speech for Effective Communication Harcourt Brace Jovanovich
Math	Geometry Students will be able to demonstrate a familiarity with angles and their properties Students will have a moderate understanding of linear equations and how to represent them graphically Students will be able to analyze congruent	Algebra 2 Students will be able to easily convert between numbers, fractions and decimals. Students will have a masterful understanding of variables and what they represent	Pre-Calculus: Studstudents will demonstrate a workworking knowledge of the folloffollowing processes and concconcepts: Linear equations (solve all types, simple to complex, model data and	Calculus: Objective 1. Students will use the limit concept for scalar functions of one variable. Outcomes: 1. Use limit theorems to determine limits. 2. Use limits to determine the continuity of a function.

and similar figures Identify pre-image, image, and isometry in rigid transformations Identify relationships between points, lines, and planes Produce compass and straightedge constructions Use inductive reasoning to find a pattern Identify similarity in polygons and use the properties thereof Right triangles using pythagorean theorem and tria functions Identify and use properties of circles Discover and implement properties of congruent triangles Students will be able to demonstrate the ability to solve mathematical and real-world problems using measurement and geometric models Students can describe in writing the steps needed to construct an angle bisector or perpendicular bisector Students will collaborate through discussion boards on Google Classroom Students will be able to utilize the functions on a scientific calculator

Students will be able to confidently solve 2 and mult-step equations/inequalities Students can construct and solve systems of equations using matrices, substitution, and elimination Students will successfully solve quadratic equations using 5 different methods Students will apply their knowledge of quadratic equations to solve polynomial equations Students will manipulate and solve rational equations Students will be able to properly take notes and complete homework in an timely & organized manner Students will be able to interpret word problems, be able to construct equations, and analyze their results Students will be able to describe how to simplify expressions/solve equations and why Students will be able to learn and utilize the functions on a graphing calculator

Formulas (solve problems using formulas, isolate a specified variable) Quadratic equations (solve by factoring, by taking square roots, by completing the square, using the quadratic formula, solve application problems) Solve other types of equations (polynomial, radical, absolute value, equations that are quadratic in form, equations with rational exponents) Inequalities with one variable (graph and solve linear, compound, absolute value, quadratic and rational inequalities) Lines (find slope, graph, write equation, model data, use idea of parallel and perpendicular) Circles (equation, center, radius, graph, convert equation to standard form) Functions (definition, domain, range, use vertical line test, evaluate, intervals for increasing and decreasing, odd, even, symmetry, model data) Graph and analyze common functions (quadratic, cubic, square root, absolute value, step, greatest integer) Transformations and combinations of functions (vertical shifts, horizontal shifts, reflections, vertical stretching and shrinking, add, subtract, multiply, divide, composition, inverse) Quadratic functions (graph, standard form, vertex, intercepts, model data, solve application problems) Polynomial functions (end behavior, leading coefficient test, graph, Remainder Theorem, Factor Theorem, find all zeros) Rational functions (vertical asymptotes, horizontal asymptotes, slant asymptotes, intercepts, graph,

solve application problems)

Objective 2. Students will use the derivative of a function of one variable. Outcomes: 1. Calculate derivatives of functions. 2. Interpret derivatives geometrically and numerically. Objective 3. Students will use the integral of a function of one variable. Outcomes: 1.Calculate integrals of functions. 2.Interpret integrals geometrically and numerically. Assessment Methods. Final exam problems will address the outcomes. The instructor will provide a copy of the problem, the grading scheme, and the distribution of grades. A representative sample of student solutions will be included to demonstrate acceptable and unacceptable solutions.

Statistics and Business Math Did Not Report

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	solve application problems)	
	Variations (direct, inverse, joint,	
	combined)	
	Exponential functions and	
	equations (evaluate, graph,	
	transform, solve equations, model	
	data and solve application	
	problems)	
	Logarithmic functions and	
	equations (log notation, properties	
	of logs, evaluate, graph, solve log	
	equations, change bases, model	
	data and solve application	
	problems)	
	Systems of equations (linear	
	equations in two variables, linear	
	equations in three variables,	
	nonlinear equations in two	
	variables, application problems)	
	Systems of inequalities (linear,	
	nonlinear, linear programming)	
	Conic sections (analyze and graph	
	ellipses, hyperbolas and parabolas,	
	find vertices, foci, axis of symmetry,	
	directrix, eccentricity and	
	asymptotes as applicable, model	
	data and solve application	
	problems)	
	Binomial theorem (expand binomial	
	raised to a power, find one	
	specified term)	
	Angles (standard position, positive	
	angle, negative angle, degree	
	measure in	
	degrees-minutes-seconds as well	
	as decimal degrees, radian	
	measure, co-terminal angles,	
	reference angles, supplementary,	
	complementary)	
	Trig functions in right triangles (trig	
	function definitions using opposite	
	side, adjacent side and	
	hypotenuse of right triangle; exact	
	trig values of 30°-60°-90° and	
	45°-45°-90° triangles; use	
	calculator to evaluate trig function	
	values in degrees and radians;	
	solve right triangles including	
	application problems)	
	Trig functions of any angle (use the	

systematic			
values, aging of the trig functions         within each quadrati, find and use         reference angles)         Trig functions of real numbers (use         the unit create to find trig function         values, properties of fine trig         functions of real numbers (use         functions of real numbers (use         functions (the numbers (use)         functions (the number (use)         functions (the number (use)         functions (the number (use)         functions (the number (use)         graph (the number (use)		x-y-r definitions to find trig function	
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wiles, properties of the trig         functions (domain, range, symmetries, period)         Basic trig identities (Reciprocal, Quicent or Ratio, Pythagorean, rearrange basic identities, simplify trig expressions)         Graph thet fig functions (period, amplitude, graph sin, cos, tan, cot, cos, can disc effunctions without the use of a graphing calculator, transformations of the basic trig graphs (incutors) without the sing a graph (incutors) without the sing a graph (incutors) without the equation)         a graph in graph (incutors)         a graph in graph (incutors) without the use of a graphing calculator, transformations of the basic trig graph (incutors) without the equation)         a addition of ordinates, given the equation)         Inverse trig functions (restrictions on the domain and range, how graph of inverse is related to trig function graph, find exect values using triggies, evaluate composition of a trig function and an inverse trig function, relativity fing there is related to range functions (restrictions on the domain and range, how graph of inverse is related to trig function graph, find exect values using tring seculate composition of a trig function and an inverse trig function and an inverse trig function and biference identities for using a discriting and to sin and cos, factoring, multiplying by a codigate, etc., using and to sin and cos, factoring, multiplying by a codigate, etc., using and to sin and cos, factoring, multiplying by a codigate, etc., using and biference identities, Sion to Product identities, Soun to Product identities, Soun to Product identities, Soun to Product identities, Soun to Product is to som identities of trig (luncer velocity,			
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angular velocity, arc length, area of			
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Math Curricular	Geometry Prentice Hall (pearson)	Algebra 2 Prentice Hall (pearson)	a sector, Law of Sines, Law of Cosines, area of a triangle, trigonometric form of complex numbers (compute absolute value, product, quotient), DeMoivre's Theorem) Parametric equations (eliminate the parameter, graph) Polar coordinates and equations (convert to and from rectangular form, graph) <b>PreCalculus with Limits Houghton</b> <b>Mifflin</b>	Calculus AP Cenage Author: Larson
Supports		<u> </u>	Author: Larson	
Science	Students will be able to demonstrate how to use the scientific process in problem solving. Students will be able to make proper measurement, identify correct formula to use and solve problems. Students will be able to identify the variables and controls in scientific experiments Students will demonstrate a basic understanding of Chemistry and Physics Students will be able to solve dimensional analysis problems Students will be able to reflect on the experiments and provide details on revisions they could make. Students will be able to express scientific thoughts and results in writing. Students will be able to complete homework outside of class STEM/Technology Goal needed: Students will use google and chromebooks to create and write their own labs and properly display data.	Biology: Students will be able to successfully apply the scientific method to problems Students will be able to demonstrate a basic understanding of cell cycle - interphase, mitosis Students will be able to make measurements with the correct number of significant digits and using the rules of significant digits when performing mathematical operations Students will be able to determine what type of data should be collected in order to make a claim/argument/hypothesis Students will be able to know base measurements in both the english and metric system. Convert between metric and english measurement systems. Have fundamental units known. Students will be able to discuss a basic knowledge of photosynthesis and cell respiration. Students will be able to focus a microscope, make a wet mount, make a stained slide. Students will be able to know the fundamental parts of an atom, where each part of the atom exists and what the charges are and explain what and isotope is and how they are formed. Students will be able to explain how experiment could have been performed better. Students will be able to explain how	AP Biology: Students will be able to use and apply the scientific method to problems and guide investigations within the context of the course Students will be able to determine what type of data should be collected in order to make a claim/argument/hypothesis Students will be able to explain basic concepts of cells as the fundamental unit of life Students will be able to make a hypothesis, procedure and use proper data analysis to support or reject hypothesis. Students will be able to demonstrate understanding biological systems utilize free energy and molecular building blocks to grow, to reproduce to maintain dynamic homeostasis Students will be able to use general laboratory equipment to measure and record data. (graduated cylinders, balances, thermometers) Knowing that we do not use beakers and erlenmeyer flasks to measure Students will be able to demonstrate knowledge of how living systems store, retrieve, transmit, and respond to information essential to life	Chemistry

evolution is fundamental to understanding biology Students will be able to list steps of cell cycle and identify stages of mitosis. Students will be able to list steps of cell cycle and identify stages of mitosis Students will be able to use Lab Quest 2 data collection units to collect data from lab/field and store in appropriate areas for others to access.	processes. Students will be able to create lab report with proper formatting Students will be able to explain the process of cell division, heredity, and molecular biology Students will be able to demonstrate understanding of the basic process and mechanisms of evolution. Students will be able to demonstrate how the process of evolution drives the diversity and unity of life. Student can successfully evaluate evidence provided by data to qualitatively and quantitatively investigate the role of natural selection in evolution. Students explain the connection between genetic variations in organisms and phenotypic variations in populations. Students can explain how the inheritance patterns of many traits cannot be accounted for by Mendelian genetics. Students can describe models illustrating how genetic information is translated into polypeptides. Students can predict how a change in DNA or RNA can result in changes in gene expression Students can construct explanations of the mechanisms and structural features of cells that allow organisms to capture, store or use free energy. Students are able to construct models that connect the movement of molecules across membranes with membrane structure and function Students can explain how biological systems interact, and	
	with membrane structure and function Students can explain how	

Science Curricular Supports		Modern Biology "owl book" copyright 200 Holt Reinhart Winston	a biological polymer determine the properties of that polymer Students construct explanations as to how interactions of subcellular structures provide essential functions. Campbell Biology 2011	Merril Chemistry copyright 1998
Social Studies	in text Students will be able to project or anticipate imminent societal events based on history Students will be able to be an active participant in class discussions and demonstrate listening, consideration and response to the statements of fellow students Students will be able to distinguish between social, cultural & ethnic aspects Students practice rewording summarizations of current issues topics contained in online and print media.	10th: World History Students will be able to use summary skills to extrapolate the the main ideas from documents. Students will be able to present information in front of the class using academic language and complete sentences. Students will be able to read and annotate primary sources Students will be able to analyze a primary source and use textual evidence to support a claim. Students will be able to determine what a reliable source is and knowing where they can find them Students will be able to conduct quality research and be able to articulate in a 3-5 paragraph document. Students will be able to participate in in-class discussions. Students will be able to determine the importance or roles of Governments. Students will be able to relate the arguments made during the Great Compromise to the struggles between Slave and free states by 1860 Students will be able to identify several Amendments to the Constitution: 1865 to 1974 Students will be able to demonstrate knowledge of and can orally express, the 3/5ths Compromise Students will be able to, with assistance from a longer list of rights and privileges can select out the expansions and limitations placed on citizenship from the Revolution to 1860 Students will summarize historical events	11th: US History Students will be able to, with aid from a general list, accurately pick out the social & political arguments that led to the American Civil War Students will be able to state clearly & succinctly, the successes and failures of the Reconstruction Period Students will be able to enumerate examples of how expansion and war led to the evolution of the American of economy and vision Students will be able to describe the significance of American interventions in the World Wars, The Cold War, and Vietnam on the citizens and government. Students will be able to correctly categorize statements as either fact, opinion or thesis Students will be able to state some fundamental economic principles that drove social and political life in 19th & 20th C. Students will be able to annotate a primary source document and use the information to generate an argumentative essay in which they use the evidence to support their claims.	Gov/Econ Student will be able to articulate the historical context leading up to the Revolutionary War. Student will be able to demonstrate understanding of the Declaration of Independence and Constitution. Student will be able to articulate their understanding of the U.S. system of government and the Constitutional Convention Student will be able to identify the debates/compromises at the Constitutional Convention Student will be able to trace how U.S. government has changed over time Student will be able to develop an appreciation for the importance of engaging in our political system and means of engagement Student will be able to discuss political ideologies Student will be able to comprehend and analyze primary sources Student will be able to lead academic discussions Student will be able to research and write a cogent and original research paper Student will be able to synthesize their presentation skills Student will be able to develop habit of paying attention to current events Student will be able to be familiar with major debates within our system of government, i.e. state power vs. federal power, national security vs. individual rights

	as accessed through a variety of media Students will be able to write one page essays recognizing connections between their historical events essays (mentioned previously) and contemporary issues and trends		
SS Curricular Supports	World History: Connections to Today Prentice Hall	America: Pathways to the Present, 2003 Prentice Hall	Economics Principles in Action Prentice Hall Government Alive: Power, Politics, and You Teachers' Curriculum Institute Patterson, The American Democracy, 10th edition Alternate edition McGraw Hill This is the newer version of the preceding book and so is it's replacement We the People: The Citizen and the Constitution Center for Civic Education