

	<b>Mathematics (Aligned to Common Core)</b>	<b>Language Arts (Aligned to Common Core)</b>	<b>Science (Aligned to Next Generation)</b>	<b>Social Studies (Aligned to WA State Standards)</b>
<b>Explanation &amp; basis for each</b>	<p>There are 8 practices that underline the Common Core State Standards (CCSS) for mathematics. These are important skills that are taught and practiced alongside the math skills being learned at each grade level. You can learn more about the standards at <a href="http://www.corestandards.org">www.corestandards.org</a>. Here are the 8 math practices:</p> <ol style="list-style-type: none"> <li>1. Make sense of problems and persevere in solving them</li> <li>2. Reason abstractly and quantitatively</li> <li>3. Construct viable arguments and critique the reasoning of others</li> <li>4. Model with mathematics</li> <li>5. Use appropriate tools strategically</li> <li>6. Attend to precision</li> <li>7. Look for and make use of structure</li> <li>8. Look for and express regularity in repeated reasoning</li> </ol>	<p>The language arts section of the Common Core State Standards (CCSS) contains 7 characteristics related to literacy that are important for students in order to be college and career ready. These characteristics are:</p> <ol style="list-style-type: none"> <li>1. They demonstrate independence</li> <li>2. They build strong content knowledge</li> <li>3. They respond to varying demands of audience, task, purpose, and discipline</li> <li>4. They comprehend as well as critique</li> <li>5. They value evidence</li> <li>6. They use technology and digital media strategically and capably</li> <li>7. They come to understand other perspectives and cultures</li> </ol> <p>You can learn more about the standards at <a href="http://www.corestandards.org">www.corestandards.org</a></p>	<p>In the Next Generation Science Standards (NGSS) there are 2 main sections. The 8 Science &amp; Engineering Practices which are the process and scientific thinking skills that students will be learning and using in order to study the Core Ideas for each grade level. These core ideas may seem similar across grade levels, yet the depth and complexity increases. You can learn more about the NGSS standards by going to <a href="http://www.nextgenscience.org">www.nextgenscience.org</a>. Here are the 8 practices:</p> <ol style="list-style-type: none"> <li>1. Asking Questions &amp; Defining Problems</li> <li>2. Developing &amp; Using Models</li> <li>3. Planning &amp; Carrying Out Investigations</li> <li>4. Analyzing &amp; Interpreting Data</li> <li>5. Using Mathematics &amp; Computational Thinking</li> <li>6. Constructing Explanations &amp; Designing Solutions</li> <li>7. Engaging in Argument from Evidence</li> <li>8. Obtaining, Evaluating, &amp; Communicating Information</li> </ol>	<p>Washington State has designated 4 capacities that are the foundation for the grade level expectations in social studies. These capacities are:</p> <ol style="list-style-type: none"> <li>1. Knowledge of history, geography, civics &amp; economics is fundamental to students' ability to understand the world we live in.</li> <li>2. Inquiry, interpersonal relations, &amp; critical reasoning skills include the ability to gather, interpret &amp; analyze information, to engage in respectful &amp; productive civic discourse, &amp; to draw conclusions consistent with one's own values and beliefs.</li> <li>3. Respect for the values of a diverse &amp; democratic society motivates students to safeguard their own rights &amp; the rights of others &amp; to fulfill their responsibilities as citizens in a democracy.</li> <li>4. A commitment to civic participation is the result of social studies education that includes opportunities for students to understand &amp; experience their own power to make a positive difference through service to their communities and the world.</li> </ol>
<b>White Team (Kindergarten)</b>	<p><b><u>Counting and Cardinality</u></b></p> <ul style="list-style-type: none"> <li>• Know number names and count sequence</li> <li>• Count to tell number of objects</li> <li>• Compare numbers</li> </ul> <p><b><u>Operations and Algebraic Thinking</u></b></p> <ul style="list-style-type: none"> <li>• Beginning understanding of addition and subtraction</li> </ul> <p><b><u>Number and Operations in Base Ten</u></b></p> <ul style="list-style-type: none"> <li>• Worth with numbers 11-19 to gain understanding of place value</li> </ul> <p><b><u>Measurement and Data</u></b></p> <ul style="list-style-type: none"> <li>• Describe, compare, and classify objects, including basic measurements</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>• Identify and describe shapes</li> <li>• Analyze, compare, create, and compose shapes</li> </ul>	<p><b><u>Foundational Skills</u></b></p> <ul style="list-style-type: none"> <li>• Letter recognition and sounds</li> <li>• Build sight word recognition</li> <li>• Understand organization &amp; basic features of print</li> <li>• Read emergent texts</li> </ul> <p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>• Build an understanding of parts of book &amp; types of texts</li> <li>• Develop understanding of key details, characters, setting, &amp; major events in a variety of texts</li> <li>• Retell &amp; compare familiar stories, making connections to own life and/or other stories</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>• Print many upper- and lowercase letters</li> <li>• Begin understanding of appropriate usage of capital letters &amp; end marks</li> <li>• Begin spelling simple words phonetically</li> <li>• Build vocabulary skills</li> <li>• Use drawing, dictating, &amp; writing to compose a variety of types of writing</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>• Develop skills in presenting ideas and appropriate participation in small &amp; large group discussions</li> </ul>	<p><b><u>Forces &amp; Interactions: Pushes &amp; Pulls</u></b></p> <ul style="list-style-type: none"> <li>• Pushes &amp; pulls can have different strengths &amp; directions</li> <li>• Pushing or pulling on an object can change the speed or direction of its motion &amp; can start or stop it</li> <li>• A bigger push or pull makes things speed up or slow down more quickly</li> <li>• When objects touch or collide, they push on one another &amp; can change motion</li> </ul> <p><b><u>Interdependent Relationships in Ecosystems</u></b></p> <ul style="list-style-type: none"> <li>• All animals need food in order to live &amp; grow; they obtain this from plants or from other animals; plants need water and light to live and grow</li> <li>• Plants &amp; animals can change their environment</li> <li>• Living things need water, air, &amp; resources from the land</li> <li>• People &amp; their choices affect the world; how choices can reduce these impacts</li> </ul> <p><b><u>Weather &amp; Climate</u></b></p> <ul style="list-style-type: none"> <li>• Sunlight warms Earth's surface</li> <li>• Weather is a combination of sunlight, wind, snow or rain, and temperature in a particular region at a specific time</li> <li>• Some kinds of severe weather are more likely than others in a given region</li> </ul>	<p><b><u>Myself and My Classroom Community</u></b></p> <ul style="list-style-type: none"> <li>• Understand the purpose of rules</li> <li>• Understand and apply ideas related justice and fairness in the classroom and school</li> <li>• Understand how to ask questions, state own viewpoint and listen to others' viewpoints</li> <li>• Creates timelines to show personal events in a sequential order</li> <li>• Retells and explains personal history</li> </ul>

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<b>Red Team (1<sup>st</sup> year)</b>	<p><b><u>Operations and Algebraic Thinking</u></b></p> <ul style="list-style-type: none"> <li>Basic addition and subtraction, including understanding of the relationships between them</li> </ul> <p><b><u>Number and Operations in Base Ten</u></b></p> <ul style="list-style-type: none"> <li>Extend counting and sequencing</li> <li>Understand place value</li> <li>Use place value understanding and properties of operations to add and subtract</li> </ul> <p><b><u>Measurement and Data</u></b></p> <ul style="list-style-type: none"> <li>Measure lengths indirectly</li> <li>Build understanding of time</li> <li>Represent and interpret data (Graphing)</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>Reason with shapes and their attributes</li> </ul>	<p><b><u>Foundational Skills</u></b></p> <ul style="list-style-type: none"> <li>Understand unique features of a sentence</li> <li>Build sight word recognition</li> <li>Expand understanding of combinations of letter sounds to decode grade-level words</li> </ul> <p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>Read emergent texts with fluency</li> <li>Ask &amp; answer questions about key details, characters, setting, and major events</li> <li>Retell and compare familiar stories with details, making connections to own life and other stories</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>Print all upper- and lowercase letters</li> <li>Extend understanding of conventions</li> <li>Build understanding of parts of speech</li> <li>Write, with support, for a variety of purposes</li> <li>Build vocabulary skills</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>Develop skills in presenting ideas and appropriate participation in small &amp; large group discussions</li> </ul>	<p><b><u>Waves: Light &amp; Sound</u></b></p> <ul style="list-style-type: none"> <li>Sound can make matter vibrate &amp; vibrating matter can make sound</li> <li>Objects can be seen if light is available to illuminate them or if they give off their own light</li> <li>Some materials allow light to pass through them, to varying degrees; mirrors can redirect light</li> </ul> <p><b><u>Structure, Function, &amp; Information Processing</u></b></p> <ul style="list-style-type: none"> <li>All organisms have external parts &amp; different animals use their body parts in different ways to see, hear, grab, etc.</li> <li>Animals have body parts that capture and convey different kinds of info needed for growth &amp; survival</li> <li>Adult plants &amp; animals can have young</li> <li>Young animals &amp; plants are very much like their parents</li> <li>Individuals of the same kind of plant or animal are recognizable as similar but can also vary in many ways</li> </ul> <p><b><u>Space Systems: Patterns &amp; Cycles</u></b></p> <ul style="list-style-type: none"> <li>Patterns of the motion of the sun, moon, &amp; stars, including seasonal ones, can be observed, described &amp; predicted</li> </ul>	<p><b><u>Families in our community</u></b></p> <ul style="list-style-type: none"> <li>Creates family timelines to show events in a sequential manner</li> <li>Understands how knowledge of family history can be helpful</li> <li>Understands choices about meeting needs and wants and the trade-offs involved</li> </ul> <p><b><u>Families in other places</u></b></p> <ul style="list-style-type: none"> <li>Understands and uses maps to identify major bodies of water and continents</li> <li>Understands that the way families live is shaped by the environment</li> <li>Engages in questioning and discussion to learn about how families live around the world</li> <li>Uses texts and visuals to gain information</li> <li>Describes how different people live using a graphic organizer</li> </ul>
<b>Red Team (2<sup>nd</sup> year)</b>	<p><b><u>Operations and Algebraic Thinking</u></b></p> <ul style="list-style-type: none"> <li>Represent and solve problems with addition and subtraction</li> <li>Add and subtract within 20</li> <li>Work with equal groups to build understanding for multiplication</li> </ul> <p><b><u>Number and Operations in Base Ten</u></b></p> <ul style="list-style-type: none"> <li>Use place value understanding and properties of operations to add and subtract</li> </ul> <p><b><u>Measurement and Data</u></b></p> <ul style="list-style-type: none"> <li>Measure and estimate lengths in standard units</li> <li>Relate addition and subtraction to length</li> <li>Work with time and money</li> <li>Represent and interpret data (graphing)</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>Reason with shapes and their attributes</li> </ul>	<p><b><u>Foundational Skills</u></b></p> <ul style="list-style-type: none"> <li>Know and apply grade-level phonics and word analysis skills in decoding words</li> <li>Read with sufficient accuracy and fluency to support comprehension</li> </ul> <p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>Read grade-level texts with fluency</li> <li>Demonstrate understanding of plot, characters, &amp; setting</li> <li>Acknowledge differences in points of view</li> <li>Describe overall structure of a story</li> <li>Identify main topic and text features in nonfiction writing</li> <li>Compare and contrast two texts on the same topic</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>Demonstrate understanding and correct usage of basic conventions and standard English</li> <li>Extend understanding of parts of speech</li> <li>Write for a variety of purposes</li> <li>Build vocabulary skills</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>Further develop skills to appropriately participate in small and large group discussions</li> <li>Demonstrate appropriate skills in presenting ideas</li> </ul>	<p><b><u>Structure &amp; Properties of Matter</u></b></p> <ul style="list-style-type: none"> <li>Different kinds of matter exist &amp; many of them can be either solid or liquid, depending on temperature</li> <li>Matter can be described &amp; classified by its observable properties</li> <li>Different properties are suited to different purposes</li> <li>A great variety of objects can be built up from a small set of pieces</li> <li>Heating or cooling a substance may cause changes that can be observed</li> </ul> <p><b><u>Interdependent Relationships in Ecosystems</u></b></p> <ul style="list-style-type: none"> <li>Plants depend on water &amp; light to grow &amp; on animals for pollination or to move their seeds around</li> <li>There are many different kinds of living things in any area, and they exist in different places on land &amp; in water</li> </ul> <p><b><u>Earth's Systems: Processes that Shape the Earth</u></b></p> <ul style="list-style-type: none"> <li>Some events happen very quickly; others occur very slowly</li> <li>Wind &amp; water can change the shape of the land</li> <li>Maps show where things are located</li> <li>Water is found in the ocean, rivers, lakes, &amp; ponds; in both solid ice &amp; liquid form</li> </ul>	<p><b><u>Our Community</u></b></p> <ul style="list-style-type: none"> <li>Understands the idea of common good within the community</li> <li>Understands the basic organization and function of government and laws in the community</li> <li>Applies basic mapping elements such as compass rose, labels, and a key to read and construct maps of the community</li> <li>Creates timelines for events to show a link between past and present</li> <li>Recognizes individuals who have shaped history in local community</li> </ul> <p><b><u>Communities Meeting Their Needs &amp; Wants</u></b></p> <ul style="list-style-type: none"> <li>Understands the basic elements of a local economy, including producers, distributors, and consumers of goods and services</li> <li>Understands that people in communities affect the environment as they meet their needs and wants</li> </ul> <p><b><u>Participating in Our Community</u></b></p> <ul style="list-style-type: none"> <li>Applies idea common good &amp; citizenship to uphold rights and responsibilities within the community</li> <li>Engages in discussions to understand points of view</li> </ul>

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<b>Black Team (1<sup>st</sup> year)</b>	<p><b><u>Operations and Algebraic Thinking</u></b></p> <ul style="list-style-type: none"> <li>Represent and solve problems involving multiplication and division and understanding the relationship between them</li> <li>Multiply and divide within 100</li> <li>Solve problems involving the four operations, and identify and explain patterns in arithmetic</li> </ul> <p><b><u>Number &amp; Operations in Base Ten</u></b></p> <ul style="list-style-type: none"> <li>Use place value understanding and properties of operations to perform multi-digit arithmetic</li> </ul> <p><b><u>Number &amp; Operations – Fractions</u></b></p> <ul style="list-style-type: none"> <li>Develop understanding of fractions as numbers</li> </ul> <p><b><u>Measurement and Data</u></b></p> <ul style="list-style-type: none"> <li>Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects</li> <li>Represent and interpret data (graphing)</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>Reason with shapes and their attributes</li> <li>Understand concepts of area and perimeter</li> </ul>	<p><b><u>Foundational Skills</u></b></p> <ul style="list-style-type: none"> <li>Know and apply grade-level phonics and word analysis skills in decoding words</li> <li>Read with sufficient accuracy and fluency to support comprehension</li> </ul> <p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>Recount stories and determine central theme and use evidence from story to support ideas</li> <li>Describe characters in a story and explain how their actions contribute to the sequence of events</li> <li>Distinguish their own point of view from the narrator or other characters</li> <li>Identify main topic and text features in nonfiction writing</li> <li>Compare and contrast texts</li> <li>Ask and answer questions to demonstrate understanding of text, explicitly referring to the text for support/evident</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>Demonstrate understanding and correct usage of basic conventions and standard English</li> <li>Extend understanding of parts of speech</li> <li>Write for a variety of purposes and work with peers to improve writing pieces</li> <li>Conduct short research projects</li> <li>Build vocabulary skills, including literal and nonliteral meanings</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>Engage effectively in a range of collaborative discussions</li> <li>Demonstrate appropriate skills in presenting ideas</li> </ul>	<p><b><u>Forces and Interactions</u></b></p> <ul style="list-style-type: none"> <li>Forces &amp; Motion – each force acts on one particular object and has both strength &amp; a direction; objects have multiple forces acting on it</li> <li>Patterns of an object’s motion in various situations can be observed &amp; measured; a pattern can be found that may make prediction possible</li> <li>Objects in contact exert forces on each other</li> <li>Electric &amp; magnetic forces between a pair of objects do not require that the objects be in contact</li> </ul> <p><b><u>Interdependent Relationships in Ecosystems</u></b></p> <ul style="list-style-type: none"> <li>When the environment changes in ways that affect a place’s physical characteristics, temperature, or availability of resources, some organisms survive &amp; reproduce, others move, some new arrive, &amp; some die</li> <li>Being part of a group helps animals obtain food, defend themselves, &amp; cope with changes</li> <li>Some kinds of plants &amp; animals have become extinct; fossils provide evidence about these &amp; their environment</li> <li>For any particular environment, some kinds of organisms survive well, some less well, &amp; some cannot survive at all</li> </ul> <p><b><u>Inheritance &amp; Variation of Traits: Life Cycles &amp; Traits</u></b></p> <ul style="list-style-type: none"> <li>Plants &amp; animals have unique &amp; diverse life cycles; reproduction is essential</li> <li>Many characteristics of organisms are inherited from their parents; others result from individuals interactions with the environment</li> <li>Different organisms vary in how they look &amp; function &amp; the environment also affects developed traits</li> <li>Sometimes the differences in characteristics between individuals of the same species provide advantages in surviving, finding mates, &amp; reproducing</li> </ul> <p><b><u>Weather &amp; Climate</u></b></p> <ul style="list-style-type: none"> <li>Scientists record patterns of weather to make predictions</li> <li>Climate describes a range of an area’s typical weather conditions &amp; the extent to which those conditions vary over the years</li> <li>A variety of natural hazards result from natural processes. Humans cannot eliminate natural hazards but can take steps to reduce their impacts</li> </ul>	<p><b><u>First Nations of North America</u></b></p> <ul style="list-style-type: none"> <li>Understands and applies how maps and globes are used to display the regions of North America, past and present</li> <li>Understands how the environment affects cultural groups and how groups affect the environment</li> <li>Understands how the economic systems of groups are influenced by laws, values, and customs</li> </ul> <p><b><u>Cultures of North America</u></b></p> <ul style="list-style-type: none"> <li>Understands the physical, political, and cultural characteristics of place, regions, and people in North America, including the location of the fifty states within U.S. regions</li> <li>Understands that learning about geography of North America helps us understand the global issue of culture</li> </ul> <p><b><u>Cultures in Our Community</u></b></p> <ul style="list-style-type: none"> <li>Understands the key ideals of unity and diversity and their impact on our community</li> <li>Understands the cultural universals of place, time, family life, economics, communication, arts, recreation, food, clothing, shelter, transportation, government, and education</li> <li>Understands how contributions made by various cultural groups have shaped the history of the community</li> </ul>

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<b>Black Team (2<sup>nd</sup> year)</b>	<p><b><u>Operations and Algebraic Thinking</u></b></p> <ul style="list-style-type: none"> <li>Use the four operations with whole numbers to solve problems</li> <li>Gain familiarity with factors and multiples</li> <li>Generate and analyze patterns</li> </ul> <p><b><u>Number and Operations in Base Ten</u></b></p> <ul style="list-style-type: none"> <li>Generalize place value understanding for multi-digit whole numbers</li> <li>Use place value understanding and properties of operations to perform multi-digit arithmetic</li> </ul> <p><b><u>Number and Operations – Fractions</u></b></p> <ul style="list-style-type: none"> <li>Extend understanding of fraction equivalence and ordering</li> <li>Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers</li> <li>Understand decimal notation for fractions, &amp; compare decimal fractions</li> </ul> <p><b><u>Measurement and Data</u></b></p> <ul style="list-style-type: none"> <li>Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit</li> <li>Represent and interpret data</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>Draw and identify lines and angles, and classify shapes by properties of their lines and angles</li> <li>Understand concepts of angle and measure angles</li> </ul>	<p><b><u>Foundational Skills</u></b></p> <ul style="list-style-type: none"> <li>Know and apply grade-level phonics and word analysis skills in decoding words</li> <li>Read with sufficient accuracy and fluency to support comprehension</li> </ul> <p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>Recount stories and determine central theme and use evidence from story to support ideas</li> <li>Describe characters in a story and explain how their actions contribute to the sequence of events</li> <li>Distinguish their own point of view from the narrator or other characters</li> <li>Identify main topic and text features in nonfiction writing</li> <li>Compare and contrast texts</li> <li>Ask and answer questions to demonstrate understanding of text, explicitly referring to the text for support/evident</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>Demonstrate understanding and correct usage of basic conventions and standard English</li> <li>Extend understanding of parts of speech</li> <li>Write for a variety of purposes and work with peers to improve writing pieces</li> <li>Conduct short research projects</li> <li>Build vocabulary skills, including literal and nonliteral meanings</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>Engage effectively in a range of collaborative discussions</li> <li>Demonstrate appropriate skills in presenting ideas</li> </ul>	<p><b><u>Energy</u></b></p> <ul style="list-style-type: none"> <li>Definitions of Energy – the faster a given object is moving, the more energy it possesses</li> <li>Energy can be moved from place to place by moving objects or through sound, light, or electric currents</li> <li>Energy is present whenever there are moving objects, sound, light, or heat. Collisions can transfer energy to other objects &amp; to surrounding air producing heat &amp; sound; light and electric currents can transfer energy</li> <li>To “produce energy” typically refers to the conversion of stored energy into practical use</li> <li>Energy &amp; fuels that humans use are derived from natural resources &amp; usage affects the environment in multiple ways; some are renewable, some are not</li> </ul> <p><b><u>Waves: Waves &amp; Information</u></b></p> <ul style="list-style-type: none"> <li>Waves in water can be made by disturbing the water’s surface; waves move across the surface, net motion only happens when it reaches the beach</li> <li>Waves of the same type can differ in amplitude &amp; length</li> <li>Digitized info can be transmitted over long distances w/o degradation. High-tech devices can receive &amp; decode info</li> </ul> <p><b><u>Structure, Function, &amp; Information Processing</u></b></p> <ul style="list-style-type: none"> <li>An object can be seen when light reflected from its surface enter the eyes</li> <li>Plants &amp; animals have both internal &amp; external structures that serve various functions in growth, survival, behavior, &amp; reproduction</li> <li>Different sense receptors are specialized for particular kinds of information</li> </ul> <p><b><u>Earth’s Systems: Processes that Shape the Earth</u></b></p> <ul style="list-style-type: none"> <li>Local, regional, &amp; global patterns of rock formations reveal changes over time due to earth forces</li> <li>Rainfall helps to shape the land &amp; affects the types of living thing found in a region. Water, ice, wind, living organisms, and gravity break rocks, soils, &amp; sediments into smaller particles and move them around</li> <li>Locations of mountain ranges, deep ocean trenches, ocean floor structures, earthquakes, &amp; volcanoes occur in patterns.</li> <li>Living things affect physical characteristics around them</li> <li>A variety of hazards result from natural processes. Humans cannot eliminate the hazards, but can take steps to reduce their impacts</li> </ul>	<p><b><u>Washington State History</u></b></p> <p><b><u>Exploring the Pacific Northwest prior to Statehood</u></b></p> <ul style="list-style-type: none"> <li>Understands how the following themes &amp; developments help to define eras in WA history up to 1889 <ul style="list-style-type: none"> <li>Growth of NW coastal &amp; plateau tribes</li> <li>Maritime &amp; overland exploration, encounter, &amp; trade</li> <li>Immigration and settlement</li> <li>Territory and treaty-making</li> </ul> </li> <li>Understands &amp; creates timelines to show how historical events are organized into time periods and eras</li> <li>Understands and analyzes how individuals caused change in WA</li> <li>Understands that there are multiple perspectives regarding the interpretation of historical events and create a historical account using multiple sources, including artifacts, primary, &amp; secondary sources</li> <li>Creates and uses a research question to conduct research on an issue or event,</li> <li>Understands that the geographic features of the Pacific Northwest have influenced the movement of people and analyzes costs and benefits associated with relocation</li> </ul> <p><b><u>WA – Geography, Resources &amp; Economy</u></b></p> <ul style="list-style-type: none"> <li>Understands the physical, political, &amp; cultural characteristics of places, regions, &amp; people in the Pacific Northwest</li> <li>Understands the basic elements of WA’s economic system</li> </ul> <p><b><u>Being Citizens of Washington</u></b></p> <ul style="list-style-type: none"> <li>Understands levels of government, including city, state, tribal, &amp; national</li> <li>Understands the key ideal of rights set forth in Article 1 of the WA Constitution</li> <li>Understands how and why state and tribal governments make, interpret, and carry out policies, rules, and laws</li> <li>Evaluates effectiveness of a law or policy by explaining how it promotes ideals</li> <li>Understands that civic participation involves being informed about public issues and voting in elections</li> </ul>

	<b>Mathematics (Aligned to Common Core)</b>	<b>Language Arts (Aligned to Common Core)</b>	<b>Science (Aligned to Next Generation)</b>	<b>Social Studies (Aligned to WA State Standards)</b>
<b>Grey Team (1<sup>st</sup> year)</b>	<p><b><u>Operations and Algebraic Thinking</u></b></p> <ul style="list-style-type: none"> <li>Write &amp; interpret numerical expressions</li> <li>Analyze numerical patterns and relationships</li> </ul> <p><b><u>Number and Operations in Base Ten</u></b></p> <ul style="list-style-type: none"> <li>Understand the place value system</li> <li>Perform operations with multi-digit whole numbers &amp; with decimals to hundredths</li> </ul> <p><b><u>Number and Operations – Fractions</u></b></p> <ul style="list-style-type: none"> <li>Use equivalent fractions as a strategy to add &amp; subtract fractions</li> <li>Apply &amp; extend previous understandings of multiplication &amp; division to multiply &amp; divide fractions</li> </ul> <p><b><u>Measurement and Data</u></b></p> <ul style="list-style-type: none"> <li>Convert like measurement units within a given measurement system</li> <li>Represent &amp; interpret data</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>Graph points on the coordinate plane to solve real-world &amp; mathematical problems</li> <li>Classify 2-dimensional figures into categories based on their properties</li> <li>Understand concepts of volume and relate volume to multiplication &amp; addition</li> </ul>	<p><b><u>Foundational Skills</u></b></p> <ul style="list-style-type: none"> <li>Know and apply grade-level phonics and word analysis skills in decoding words</li> <li>Read with sufficient accuracy and fluency to support comprehension</li> </ul> <p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>Determine theme of a text with supporting details from the text</li> <li>Summarize the text</li> <li>Compare &amp; contrast 2 or more characters, settings, or events by drawing on specific details</li> <li>Determine meaning of words &amp; phrases, including figurative language and academic or subject-specific vocabulary</li> <li>Identify main topic and text features in nonfiction writing</li> <li>Compare and contrast texts</li> <li>Quote accurately from a text when explaining what the text says either explicitly or implicitly</li> <li>Analyze multiple accounts of the same event or topic</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>Write for a variety of purposes and work with peers to improve writing pieces</li> <li>Produce clear &amp; coherent writing with development &amp; organization that are appropriate for grade, task, purpose, &amp; audience</li> <li>Extend understanding of parts of speech and correct inappropriate shifts in verb tense</li> <li>Demonstrate command of the conventions of standard English capitalization, punctuation, &amp; spelling when writing</li> <li>Conduct short research projects</li> <li>Build vocabulary skills, including literal and nonliteral meanings</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>Engage effectively in a range of collaborative discussions, building on others' ideas and expressing their own clearly</li> <li>Summarize a text read aloud</li> <li>Present information orally with multimedia components, sequencing ideas logically and using appropriate details to support the main idea</li> </ul>	<p><b><u>Structure and Properties of Matter</u></b></p> <ul style="list-style-type: none"> <li>Matter of any type can be subdivided into particles that are too small to see, but even then the matter still exists and can be detected by other means</li> <li>The amount of matter is conserved when it changes form, even in transitions in which it seems to vanish</li> <li>Measurements of a variety of properties can be used to identify materials</li> <li>When 2 or more different substances are mixed, a new substance with different properties may be formed</li> <li>No matter what reaction or change in properties occurs, the total weight of the substances does not change</li> </ul> <p><b><u>Matter &amp; Energy in Organisms &amp; Ecosystems</u></b></p> <ul style="list-style-type: none"> <li>Energy released from food was once energy from the sun that was captured</li> <li>Food provides animals with the materials they need for body repair &amp; growth and the energy they need to maintain body warmth and for motion</li> <li>Plants acquire material for growth from air &amp; water</li> <li>The food of almost any kind of animal can be traced back to plants; organisms are related in food webs; decomposers role in ecosystems; healthy ecosystems</li> <li>Matter cycles between the air and soil and among plants, animals, and microbes as these organisms live &amp; die</li> </ul> <p><b><u>Earth's systems</u></b></p> <ul style="list-style-type: none"> <li>Earth's major systems are the geosphere, the hydrosphere, the atmosphere, &amp; the biosphere; these systems interact &amp; affect Earth's surface materials &amp; processes</li> <li>Nearly all of the Earth's available water is in the ocean; most fresh water is in glaciers or underground</li> <li>Human activities in agriculture, industry, &amp; everyday life have had major effects on the land, vegetation, streams, ocean, air, and even outer space</li> </ul> <p><b><u>Earth's systems</u></b></p> <ul style="list-style-type: none"> <li>The gravitational force of Earth acting on an object near Earth's surface pulls that object toward the planet's center</li> <li>The sun is a star that appears larger &amp; brighter due to proximity</li> <li>The orbits of Earth around sun and moon around Earth, together with the rotation of Earth on its axis cause observable patterns</li> </ul>	<p><b><u>United States History up to 1791</u></b></p> <p><b><u>Encounter, Colonization and Devastation (1492-1763)</u></b></p> <ul style="list-style-type: none"> <li>Understands how the following themes &amp; developments help to define eras in US history up to 1791             <ul style="list-style-type: none"> <li>Development of indigenous societies</li> <li>Encounter, colonization, &amp; devastation</li> <li>Revolution and the Constitution</li> </ul> </li> <li>Analyzes how people from various cultural groups have shaped the history of the U.S.</li> <li>Understands how trade affected the economy of the 13 colonies</li> <li>Constructs and uses maps to show and analyze information about the 13 colonies</li> <li>Analyzes the impact of European colonists' movement to Americas on the land &amp; indigenous peoples</li> <li>Analyzes multiple perspectives &amp; interpretations of historical events</li> </ul> <p><b><u>US Independence</u></b></p> <ul style="list-style-type: none"> <li>Understands and creates timelines to show how historical events are caused by other important events</li> <li>Analyzes the multiple causes of change and conflict in US history</li> <li>Understands the impact of the British government on the colonial economy</li> <li>Research an issue or event, examining multiple perspectives to take a position on a public or historical issue</li> </ul> <p><b><u>Founding the Nation</u></b></p> <ul style="list-style-type: none"> <li>Understands how technology and ideas have affected values and how people live</li> <li>Understands the key ideals of liberty and patriotism as outlined in foundational documents</li> <li>Understands the organization &amp; function of the US government, and rights and responsibilities of citizenship</li> </ul> <p><b><u>Legacy for us today</u></b></p> <ul style="list-style-type: none"> <li>Understands that significant historical events in the US have implications for current &amp; future decisions</li> </ul>

	<p align="center"><b>Mathematics</b> (Aligned to Common Core)</p>	<p align="center"><b>Language Arts</b> (Aligned to Common Core)</p>	<p align="center"><b>Science</b> (Aligned to Next Generation)</p>	<p align="center"><b>Social Studies</b> (Aligned to WA State Standards)</p>
<p><b>Grey Team Team (2<sup>nd</sup> year)</b></p>	<p><b><u>Ratios and Proportional Relationships</u></b></p> <ul style="list-style-type: none"> <li>Understand ratio concepts &amp; use ratio reasoning to solve problems</li> </ul> <p><b><u>The Number System</u></b></p> <ul style="list-style-type: none"> <li>Apply &amp; extend previous understandings of multiplication &amp; division to divide fractions by fractions</li> <li>Compute fluently with multi-digit numbers &amp; find common factors &amp; multiples</li> <li>Apply &amp; extend previous understandings of numbers to the system of rational numbers</li> </ul> <p><b><u>Expressions and Equations</u></b></p> <ul style="list-style-type: none"> <li>Apply and extend previous understandings of arithmetic to algebraic expressions</li> <li>Reason about &amp; solve one-variable equations and inequalities</li> <li>Represent &amp; analyze quantitative relationships between dependent &amp; independent variables</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>Solve real-world &amp; mathematical problems involving area, surface area, and volume</li> </ul> <p><b><u>Statistics and Probability</u></b></p> <ul style="list-style-type: none"> <li>Develop understanding of statistical variability</li> <li>Summarize and describe distributions</li> </ul>	<p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>Cite textual evidence to support analysis</li> <li>Determine theme or central idea of a text with supporting details from the text; summarize text</li> <li>Determine meaning of words &amp; phrases, including figurative language and academic or subject-specific vocabulary</li> <li>Analyze how a particular sentence, chapter, scene, or stanza fits into the overall structure of a text and contributes to the development of the theme, setting, plot, or ideas in nonfiction</li> <li>Determine an author’s point of view or purpose in a text and explain how it is conveyed in the text</li> <li>Identify main topic and text features in nonfiction writing</li> <li>Compare and contrast texts, including differing experiences in reading versus listening or viewing and different forms or genres about similar themes or topics</li> <li>Evaluate the argument &amp; specific claims in a text</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>Write for a variety of purposes and work with peers to improve writing pieces</li> <li>Produce clear &amp; coherent writing with development, organization, &amp; style that are appropriate for grade, task, purpose, &amp; audience</li> <li>Demonstrate command of the conventions of standard English in grammar and usage, and capitalization, punctuation, &amp; spelling when writing</li> <li>Conduct short research projects using multiple sources &amp; providing bibliographic information</li> <li>Demonstrate understanding of figurative language, word relationships, and nuances in word meanings</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>Engage effectively in a range of collaborative discussions, building on others’ ideas and expressing their own clearly</li> <li>Interpret info presented in diverse media &amp; formats</li> <li>Evaluate a speaker’s argument &amp; claims</li> <li>Present information orally with multimedia components, sequencing ideas logically and using appropriate details to support the main idea</li> </ul>	<p><b><u>Earth science</u></b></p> <p><b><u>Earth’s Place in the Universe</u></b></p> <ul style="list-style-type: none"> <li>Patterns of the apparent motion of the sun, the moon, &amp; stars in the sky can be observed, described, predicted, &amp; explained with models</li> <li>Earth and its solar system are part of the Milky Way galaxy, which is one of many galaxies in the universe</li> <li>The solar system consists of the sun &amp; a collection of objects, including planets, moons, and asteroids that are held in orbit around the sun by its gravitational pull</li> <li>This model of the solar system can explain eclipses of the sun &amp; moon; Earth’s spin axis is fixed in direction over the short-term but tilted relative to its orbit around the sun; seasons are a result of that tilt &amp; are caused by the differential intensity of the sunlight on different areas of Earth across the year</li> <li>The solar system appears to have formed from a disk of dust &amp; gas, drawn together by gravity</li> <li>The geologic time scale interpreted from rock strata provides a way to organize Earth’s history; analyses of rock strata &amp; fossil record provide only relative dates, not an absolute scale</li> </ul> <p><b><u>Earth’s Systems</u></b></p> <ul style="list-style-type: none"> <li>Tectonic processes continually generate new ocean sea floor at ridges and destroy old sea floor at trenches</li> <li>All Earth processes are the result of energy flowing &amp; matter cycling within and among the planet’s systems; these produce chemical &amp; physical changes in Earth’s materials &amp; living organisms; this energy is derived from the Sun &amp; Earth’s hot interior</li> <li>The planet’s systems interact over scales that range from microscopic to global in size, &amp; they operate over fractions of a second to billions of years</li> <li>Maps of ancient land &amp; water patterns, based on rocks &amp; fossils, make clear how Earth’s plates have moved great distances, collided, &amp; spread apart</li> <li>Roles of water in Earth’s surface processes</li> <li>Weather and climate – in-depth</li> </ul> <p><b><u>Earth &amp; Human Activity</u></b></p> <ul style="list-style-type: none"> <li>Natural resources &amp; hazards</li> <li>Human impacts on Earth systems</li> <li>Global climate change</li> </ul>	<p><b><u>World – Ancient Civilizations (800BCE–600CE)</u></b></p> <ul style="list-style-type: none"> <li>Explains and compares the basic cultural elements of ancient civilizations in Mesopotamia, Egypt, Rome, Han China, and the Americas</li> </ul> <p><b><u>World – Major Societies (600-1450CE)</u></b></p> <ul style="list-style-type: none"> <li>Explains and compares the development and cultural elements of a variety of civilizations during the middle ages, including in Europe, Africa, Asia, and the Americas</li> </ul> <p><b><u>For both:</u></b></p> <ul style="list-style-type: none"> <li>Analyzes how societies have interacted with one another, including forces of supply &amp; demand in international trade and the silk road</li> <li>Understand a variety of forms of government and their effects on people</li> <li>Understand the geographic factors that influence movement and human spatial patterns</li> <li>Analyzes human-environment interaction</li> <li>Analyzes how individuals, movements, technology, &amp; ideas from ancient civilizations have shaped world history</li> <li>Understands examples of cultural diffusion</li> <li>Analyze events from more than one perspective</li> <li>Create and use research questions to guide inquiry, evaluate sources, and develop a thesis for a paper or presentation</li> <li>Analyzes how an event in history helps us to understand a current issue</li> <li>Engages in discussions that clarify and address multiple viewpoints</li> </ul>

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<b>Cardinal Team (1<sup>st</sup> year)</b>	<p><b><u>Ratios and Proportional Relationships</u></b></p> <ul style="list-style-type: none"> <li>Analyze proportional relationships and use them to solve real-world and mathematical problems</li> </ul> <p><b><u>The Number System</u></b></p> <ul style="list-style-type: none"> <li>Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers</li> </ul> <p><b><u>Expressions and Equations</u></b></p> <ul style="list-style-type: none"> <li>Use properties of operations to generate equivalent expressions</li> <li>Solve real-life and mathematical problems using numerical and algebraic expressions and equations</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>Draw, construct, and describe geometrical figures and describe the relationships between them</li> <li>Solve real-world &amp; mathematical problems involving angle measure, area, surface area, and volume</li> </ul> <p><b><u>Statistics and Probability</u></b></p> <ul style="list-style-type: none"> <li>Use random sampling to draw inferences about a population</li> <li>Draw informal comparative inferences about 2 populations</li> <li>Investigate chance processes and develop, use, and evaluate probability models</li> </ul>	<p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>Cite textual evidence to support analysis</li> <li>Determine theme or central idea of a text with supporting details from the text; summarize text</li> <li>Determine meaning of words &amp; phrases, including figurative language and academic or subject-specific vocabulary</li> <li>Analyze how a particular sentence, chapter, scene, or stanza fits into the overall structure of a text and contributes to the development of the theme, setting, plot, or ideas in nonfiction</li> <li>Determine an author’s point of view or purpose in a text and explain how it is conveyed in the text</li> <li>Identify main topic and text features in nonfiction writing</li> <li>Compare and contrast texts, including differing experiences in reading versus listening or viewing and different forms or genres about similar themes or topics</li> <li>Evaluate the argument &amp; specific claims in a text</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>Write for a variety of purposes and work with peers to improve writing pieces</li> <li>Produce clear &amp; coherent writing with development, organization, &amp; style that are appropriate for grade, task, purpose, &amp; audience</li> <li>Demonstrate command of the conventions of standard English in grammar and usage, and capitalization, punctuation, &amp; spelling when writing</li> <li>Conduct short research projects using multiple sources &amp; providing bibliographic information</li> <li>Demonstrate understanding of figurative language, word relationships, and nuances in word meanings</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>Engage effectively in a range of collaborative discussions, building on others’ ideas and expressing their own clearly</li> <li>Interpret info presented in diverse media &amp; formats</li> <li>Evaluate a speaker’s argument &amp; claims</li> <li>Present information orally with multimedia components, sequencing ideas logically and using appropriate details to support the main idea</li> </ul>	<p><b><u>Life Science</u></b></p> <p><b>From Molecules to Organisms: Structures &amp; Processes</b></p> <ul style="list-style-type: none"> <li>Cell structure and function</li> <li>Growth &amp; Development of Organisms – both plants and animals</li> <li>Photosynthesis</li> <li>Within individual organisms, food move through a series of chemical reactions in which it is broken down &amp; rearranged to form new molecules, to support growth, or to release energy</li> <li>Information processing – each sense receptor responds to different inputs, transmitting them as signals that travel along nerve cells to the brain; signals are processed in the brain, resulting in immediate behaviors or memories</li> <li>Cellular respiration in plants &amp; animals involve chemical reactions with oxygen that release stored energy; in these processes, complex molecules containing carbon react with oxygen to produce carbon dioxide</li> </ul> <p><b>Ecosystems: Interactions, Energy, &amp; Dynamics</b></p> <ul style="list-style-type: none"> <li>Interdependent relationships in ecosystems <ul style="list-style-type: none"> <li>organisms are dependent on their environmental interactions both with other living things &amp; with nonliving factors</li> <li>organisms with similar requirements may compete for resources</li> <li>growth of organisms &amp; population are limited by resources</li> </ul> </li> <li>Cycle of matter &amp; energy transfer in ecosystems – food webs and decomposers</li> <li>Ecosystem dynamics, functioning, &amp; resilience – ecosystems are dynamic &amp; can change over time</li> <li>Biodiversity &amp; humans</li> </ul> <p><b>Heredity: Inheritance &amp; Variation of Traits</b></p> <ul style="list-style-type: none"> <li>Growth &amp; development of organisms</li> <li>Inheritance of traits</li> <li>Variation of traits</li> </ul> <p><b>Biological Evolution: Unity &amp; Diversity</b></p> <ul style="list-style-type: none"> <li>Evidence of common ancestry &amp; diversity</li> <li>Natural selection</li> <li>Adaptation</li> </ul>	<p><b><u>World Geography</u></b></p> <ul style="list-style-type: none"> <li>Five themes of geography <ul style="list-style-type: none"> <li>Location, place, human-environment interaction, movement, regions</li> </ul> </li> <li>Location of places &amp; regions in the world</li> <li>Understand physical &amp; cultural characteristics of a variety of places</li> <li>Construct &amp; analyze maps of a variety of places, scales, and types</li> <li>Understand how human spatial patterns have emerged</li> <li>Understand examples of cultural diffusion in the world</li> </ul> <p><b><u>Washington State History</u></b></p> <ul style="list-style-type: none"> <li>Understands how themes &amp; developments have defined eras in Washington State, including: <ul style="list-style-type: none"> <li>Territory &amp; Treaty Making (1854-1889)</li> <li>Railroads, reform, immigration, &amp; labor (1889-1930)</li> <li>Great Depression &amp; WWII (1930-1945)</li> <li>New Technologies &amp; industries (1945-1980)</li> <li>Contemporary WA State (1980-present)</li> </ul> </li> <li>Analyze major historical events from different cultural perspectives</li> <li>Understand &amp; analyze how individuals &amp; movements have shaped WA state</li> <li>Understand &amp; analyze how cultures &amp; cultural groups contributed to WA state history</li> <li>Understand &amp; analyze how technology &amp; ideas have impacted WA state history</li> <li>Analyzes the production, distribution, and consumption of goods, services, and resources in societies</li> <li>Understand various forms of government &amp; their effects on the lives of people</li> <li>Evaluates the breadth of primary &amp; secondary sources &amp; analyzes notes to determine the need for additional information while researching an issue or event</li> </ul>

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<b>Cardinal Team (2<sup>nd</sup> year)</b>	<p><b><u>The Number System</u></b></p> <ul style="list-style-type: none"> <li>Know that there are numbers that are not rational, approximate them by rational numbers</li> </ul> <p><b><u>Expressions and Equations</u></b></p> <ul style="list-style-type: none"> <li>Work with radicals and integer exponents</li> <li>Understand the connections between proportional relationships, lines, and linear equations</li> <li>Analyze and solve linear equations and pairs of simultaneous linear equations</li> </ul> <p><b><u>Functions</u></b></p> <ul style="list-style-type: none"> <li>Define, evaluate, and compare functions</li> <li>Use functions to model relationships between quantities</li> </ul> <p><b><u>Geometry</u></b></p> <ul style="list-style-type: none"> <li>Understand congruence and similarity using physical models, transparencies, or geometry software</li> <li>Understand and apply the Pythagorean Theorem</li> <li>Solve real-world &amp; mathematical problems involving volume of cylinders, cones, and spheres</li> </ul> <p><b><u>Statistics and Probability</u></b></p> <ul style="list-style-type: none"> <li>Investigate patterns of association in bivariate data</li> </ul> <p><b>ALGEBRA</b></p> <p><b><u>Seeing Structure in Expressions</u></b></p> <ul style="list-style-type: none"> <li>Interpret the structure of expressions</li> <li>Write expressions in equivalent forms to solve problems</li> </ul> <p><b><u>Arithmetic with Polynomials and Rational Expressions</u></b></p> <ul style="list-style-type: none"> <li>Perform arithmetic operations on polynomials</li> <li>Understand the relationship between zeros &amp; factors of polynomials</li> <li>Use polynomial identities to solve problems</li> <li>Rewrite rational expressions</li> </ul> <p><b><u>Creating Equations</u></b></p> <ul style="list-style-type: none"> <li>Create equation that describe numbers or relationships</li> </ul> <p><b><u>Reasoning with Equations and Inequalities</u></b></p> <ul style="list-style-type: none"> <li>Understand solving equations as a process of reasoning &amp; explain the reasoning</li> <li>Solve equations &amp; inequalities in one variable</li> <li>Solve systems of equations</li> <li>Represent &amp; solve equations &amp; inequalities graphically</li> </ul>	<p><b><u>Reading Literature &amp; Informational Texts</u></b></p> <ul style="list-style-type: none"> <li>Cite the textual evidence that most strongly supports an analysis</li> <li>Determine theme or central idea of a text and analyze its development throughout of the text</li> <li>Analyze the impact of specific word choices on meaning &amp; tone, including analogies</li> <li>Analyze how a modern work of fiction draws on themes, events, or character types from myths, traditional stories, or religious words, like the Bible</li> <li>Compare and contrast texts, including the structure of 2 or more texts &amp; analyze how the differing structure of each text contributes to its meaning &amp; style</li> <li>Evaluate the advantages &amp; disadvantages of using different mediums to present an idea or topic</li> <li>Delineate &amp; evaluate the argument &amp; specific claims in a text, assessing whether the reasoning is sound &amp; evidence is relevant &amp; sufficient</li> <li>Analyze a case in which 2 or more texts provide conflicting info on the same topic &amp; identify where the texts disagree on matters of fact or interpretation</li> </ul> <p><b><u>Writing and Language</u></b></p> <ul style="list-style-type: none"> <li>Write for a variety of purposes and work with peers to improve writing pieces</li> <li>Produce clear &amp; coherent writing with development, organization, &amp; style that are appropriate for grade, task, purpose, &amp; audience</li> <li>Demonstrate command of the conventions of standard English in grammar and usage, and capitalization, punctuation, &amp; spelling</li> <li>Conduct short research projects using multiple sources &amp; providing bibliographic information</li> </ul> <p><b><u>Speaking and Listening</u></b></p> <ul style="list-style-type: none"> <li>Engage effectively in a range of collaborative discussions, building on others' ideas and expressing their own clearly</li> <li>Present claims &amp; findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, &amp; well-chosen details; use appropriate eye contact, volume, &amp; pronunciation</li> </ul>	<p><b><u>Physical Science</u></b></p> <p><b><u>Matter &amp; Its Interactions</u></b></p> <ul style="list-style-type: none"> <li>Structure &amp; properties of matter <ul style="list-style-type: none"> <li>Substances are made from different types of atoms; atoms form molecules</li> <li>Each pure substance has physical &amp; chemical properties that can be used to identify it</li> <li>Molecules &amp; their movement in solids, liquids, &amp; gases</li> </ul> </li> <li>Chemical reactions <ul style="list-style-type: none"> <li>Substances react chemically in characteristics ways</li> <li>Total number of each type of atom is conserved, thus mass does not change</li> <li>Some reactions release energy, others store energy</li> </ul> </li> <li>Definitions of energy</li> </ul> <p><b><u>Motion and Stability: Forces and Interactions</u></b></p> <ul style="list-style-type: none"> <li>Forces and motion – Newton's laws</li> <li>Types of Interactions – electric, magnetic, gravitational</li> </ul> <p><b><u>Energy</u></b></p> <ul style="list-style-type: none"> <li>Kinetic energy &amp; potential energy</li> <li>Temperature is a measure of the average kinetic energy of particles o matter</li> <li>Conservation of energy &amp; energy transfer</li> <li>Relationships between energy and forces</li> </ul> <p><b><u>Waves &amp; Their Applications in Technologies for Information Transfer</u></b></p> <ul style="list-style-type: none"> <li>Wave properties – a simple wave has a repeating pattern with a specific wavelength, frequency, &amp; amplitude</li> <li>A sound wave needs a medium through which it is transmitted</li> <li>When light shines on an object it is reflected, absorbed, or transmitted through the object, depending on the object's material and the frequency (color) of the light.</li> <li>The path that light travels can be traced as straight lines except at surfaces between different transparent materials (e.g., air &amp; water) where the light path bends</li> <li>Digitized signals (sent as wave pulses) are a more reliable way to encode &amp; transmit information</li> </ul>	<p><b><u>United States History</u></b></p> <ul style="list-style-type: none"> <li>Understands how the following themes &amp; developments help to define eras in US history 1776-1900: <ul style="list-style-type: none"> <li>Fighting for independence &amp; framing the Constitution (1776-1815)</li> <li>Slavery, expansion, removal, &amp; reform (1801-1850)</li> <li>Civil War &amp; Reconstruction (1850-1877)</li> <li>Development &amp; struggles in the West, industrialization, immigration, &amp; urbanization (1870-1900)</li> </ul> </li> <li>Understands key ideals &amp; principals of the founding documents, including concepts of democracy, republic, &amp; separation of powers</li> <li>Analyze how the environment has affected people &amp; how people have affected the environment in the US past or present</li> <li>Understands &amp; analyzes migration as a catalyst for growth in the US</li> <li>Understands cultural diffusion in the US</li> <li>Understands &amp; analyzes how cultures &amp; cultural groups have contributed to US history (1776-1900)</li> <li>Understands reasons based on evidence for a position on an issue or event</li> <li>Analyzes multiple causal factors to create positions on major events in US history</li> <li>Understands &amp; analyzes how individuals &amp; movements have shaped US history</li> <li>Analyzes how the US has interacted with other countries in the past or present</li> <li>Analyzes how a historical event in US history helps us to understand a current issue</li> <li>Evaluates efforts to reduce discrepancies between key ideal &amp; reality in the US; including, how Constitutional amendments have sought to extend rights to new groups</li> <li>Creates &amp; uses research questions that are tied to an essential question to focus inquiry on an issue</li> </ul>

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