

## Sixth Grade Science Curriculum Map

Quarter	Month	Content	Skills	State Standards	Assessments	Math Integration
1	September	Space Unit 17 and 18 Chapter 2 and 4	*Describe star classifications (size, color, temperature, brightness, life cycle, sun *Describe theory of origin of universe	12.F.3a 12.F.3c 11.A.3e 11.A.3f	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	*Estimate distances 6.6.17 *Calculate distances of stars from Earth and from each other 6.6.14, 6.6.18, 6.6.19, 6.6.20, 6.6.23 *Put distances of stars in expanded form 6.6.03, 6.6.21, 6.6.25
		Motion of the Earth Unit 17 and 18 Chapter 2 and 4	*Model Rotation *Model Revolution *Describe why we have change of seasons *Characteristics of the moon	12.F.3a 12.F.3c	*Quizzes *Chapter Tests	

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	<b>October</b>	Motion of the Earth Unit 17 and 18 Chapter 2 and 4	*Interaction among sun, earth, and moon *Space Technology	12.F.3a - 12.F.3c	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests *Review Sheet *Study Guide *Quarter 1 Assessment Test	*Calculate average distance to the moon 6.6.14, 6.6.18, 6.6.19, 6.6.20
2		Atmosphere Unit 11 Chapter 5	*Identify and describe atmospheric layers and gases *Identify and explain ways scientific knowledge and economics drive technological development related to the ozone layer	12.E.3a	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Test	*Percent of gases in the atmosphere 6.6.04, 6.6.21

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	November	Hydrosphere Unit 10 Chapter 6 and 7	*Water Cycle *Name and describe sources of fresh water and ocean water *Describe features of the ocean floor *Compare ocean life zones *Identify motions of ocean and their effects	12.E.3b	*Worksheet *Notebook *Lab Work *Quizzes *Chapter Tests	*Compare percent and fraction of land to water on Earth 6.6.04, 6.6.21, 6.6.09, 6.6.10, 6.6.11 *Compare percent of fresh water to ocean water 6.6.09,

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	December	Structure of the Earth Unit 2 Chapter 8	*Identify continents *Use latitude and longitude to locate places on Earth *Identify the time zones and time differences *Interpret maps	12.E.3a, 12.E.3b, 13.B.3a, 11.A.3e, 11.A.3f	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	*Coordinate planes and plot points 8.6.02, 9.6.09, 9.6.10

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	January	Structure of the Earth Unit 2 Chapter 8	*Identify continents *Use latitude and longitude to locate places on Earth *Identify the time zones and time differences *Interpret maps	12.E.3a, 12.E.3b, 13.B.3a, 11.A.3e, 11.A.3f	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests *Review Sheet *Study Guide *Quarter 2 Assessment Test	*Addition and Subtraction of Time using Time Zones 6.6.16 *Frequency Table of Volcanoes and Earthquakes 10.6.04
3		Subsurface Activities Unit 2, 7, and 8 Chapter 9, 10, 11, and 12	*Name and describe layers of the Earth *Describe how Earth breaks, tilts, and folds *Classify three types of volcanoes *Demonstrate ways to record and use data accurately using appropriate technology	12.E.3a	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	

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	<b>February</b>	Subsurface Activities Unit 2, 7 and 8 Chapter 9, 10, 11, and 12	*Describe evidence for theory of Continental Drift and relate to ocean floor spreading	12.E.3a	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	

Quarter	Month	Content	Skills	State Standards	Assessments	Math Integration
	March	Data Analysis	*Construct and interpret graphs	11A.3e, 11.A.3f	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests *Review Sheet *Study Guide *Quarter 3 Assessment Test	*Construct and Interpret Line Graphs, Multiple Line Graphs, Bar Graphs, and Pie Graphs 10.6.04, 10.6.05 *Percentages and Proportions of Above Graphs 6.6.04, 6.6.21 **Math Integrated on Quarter 3 Assessment Test
4		Surface Activities Unit 12 Chapter 16	*Collect and record weather data * Understanding daily weather changes and forecasting *Identifying technology used in weather forecasting *Severe Weather - warm and cold fronts *Describe and analyze relationships among science, technology, and society in practical situations	12.E.3b, 11.A.3c	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Test	

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4	April	Climate Unit 13 Chapter 17	*Explain meaning of climate *Describe how temperature and precipitation influence climate *Identify the three climate zones and their main characteristics	12.E.3a, 12.E.3b	*Worksheets *Notebook *Lab Work *Quizzes *Chapter Tests	*Addition and Subtraction-factors affecting Weather and Climate 7.6.03, 7.6.04, 7.6.09 *Probability and Estimating Weather and Climate 10.6.02, 10.6.07, 10.6.09, 10.6.12 *Construct and interpret graphs 10.6.04, 10.6.05 *Metric Conversion Farenheit to Celsius 7.6.03, 7.6.04, 7.6.09 *Mean, Median, and Mode of Weather Conditions 10.6.06
		Composition of the Earth Unit 3 and 4 Chapter 13	*Define the term Mineral *Distinguish between a mineral and a rock *Name and describe physical properties of a mineral *Describe the rock cycle *Name and describe the three types of rocks	12.E.3a, 12.E.3b, 12.E.3c	*Worksheet *Notebook *Lab Work *Quizzes *Chapter Tests	*Problem solving using charts and tables of minerals 10.6.03

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	Month	Content	Skills	State Standards	Assessments	Math Integration
	May	History of the Earth Unit 9 Chapter 20	<ul style="list-style-type: none"> <li>*List types of fossils and explain how each forms</li> <li>*Describe how scientists use fossils as clues to Earth's past</li> <li>*Define law of superposition and describe its use in finding the relative age of rocks and fossils</li> <li>*Describe how the half life of radioactive elements is used to find the absolute age of rocks and fossils</li> <li>*Name the four eras of geologic time and describe major life forms and events that occurred in each</li> </ul>	12.E.3a, 12.E.3b	<ul style="list-style-type: none"> <li>*Worksheet</li> <li>*Notebook</li> <li>*Lab Work</li> <li>*Quizzes</li> <li>*Chapter Tests</li> <li>*Review Sheet</li> <li>*Study Guide</li> <li>*Quarter 4 Assessment Test</li> </ul>	<ul style="list-style-type: none"> <li>*Addition, Division, and Subtraction of Rock Ages 6.6.14, 6.6.18, 6.6.19, 6.6.20, 6.6.23</li> <li>*Write expressions &amp; equations from content 6.6.02, 8.6.02, 8.6.08, 8.6.10</li> <li>**Math Integrated on Quarter 4 Assessment Test</li> </ul>