

Curriculum Map

Revised 7/08

Subject Science

Grade Level Science 6

Month	Topic	Concept/Skill	Assessments	Resources <small>Note: Resources for all topics may include internet-based materials.</small>
<p>Note: please see detailed calendar for day-to-day instructional layout.</p> <p>September</p>	Scientific Method	<ul style="list-style-type: none"> -Step-by-step approach to solving problems -Applications in a formal Lab Write-up (i.e. differentiating between Independent and Dependent Variables) -Developing hypotheses, designing experiments, interpreting data, drawing conclusions and communicating -Lab Write-up Vocabulary 	<ul style="list-style-type: none"> -Lab Write-up for the “Egg Drop” Lab -Lab Write-up for the “Sugar Shock” Lab -Lab Write-up Vocabulary Quiz 	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Adapted Workbook -Prentice Hall Lab Manual -Science Explorer Video Explorations -Science 21 Lab-write up handout -Brainpop.com -Sciencespot.net
	Measurement	<ul style="list-style-type: none"> -Review of the Metric System -Specify units of length (i.e.-mm, cm, m, and km) -Common Metric Prefixes -Identifying metric units of mass and capacity 	<ul style="list-style-type: none"> -p. 19 Section 2 Assessment Questions 	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Adapted Workbook -Prentice Hall Lab Manual -Science Explorer Video Explorations -Science 21 Lab-write up handout -Brainpop.com -Sciencespot.net

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October	Scientific Method	<ul style="list-style-type: none"> -Step-by-step approach to solving problems -Applications in a formal Lab Write-up (i.e. differentiating between Independent and Dependent Variables) -Developing hypotheses, designing experiments, interpreting data, drawing conclusions and communicating -Lab Write-up Vocabulary 	<ul style="list-style-type: none"> -Lab Write-up for the "Candle Caper" Lab -Variables Quiz -Unit 1 Assessment 	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Adapted Workbook -Prentice Hall Lab Manual -Science Explorer Video Explorations -Science 21 Lab-write up handout -Brainpop.com -Sciencespot.net

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October/November	Ecosystems	<ul style="list-style-type: none"> -Energy roles organisms play in an ecosystem -Energy movement through the ecosystem -Energy availability at each level of the energy pyramid -Population vs. Community -Limiting Factors -Competition -Symbiosis 	-p.445 Section 1 Assessment	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Science Explorer Video Explorations -Brainpop.com -Mailbox.com
	Cycles	<ul style="list-style-type: none"> -The processes involved in the water cycle -The processes involved in the carbon and oxygen cycle -The processes involved in the nitrogen cycle -carbon and oxygen recycling in an ecosystem 	<ul style="list-style-type: none"> -p. 451 Section 2 Assessment -Unit 2 Assessment 	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Active art (PH) -Brainpop.com -Mailbox.com

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December	Weather and Climate	-Factors that influence temperature and precipitation -Seasonal Changes -Factors used to define climates -Factors that cause climate change	-p.329 Section 1 Assessment	-Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Active art (PH) -Brainpop.com

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January/February	Climate Regions/Biomes	-Major biomes found on earth (i.e.-tropical rain forest, desert, grassland, savannah etc.) -Factors that determine each biome	-Weather and Climate Assessment -Biomes Assessment	-Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Active art (PH) -Brainpop.com

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March	Energy and Fossil Fuels	<ul style="list-style-type: none"> -The different types of fossil fuels currently in use -Source of energy stored in fossil fuels -Energy transformation as fossil fuels are used -Renewable vs. nonrenewable resources 	-p. 107 Section 4 Assessment	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Active art (PH) -Brainpop.com
	Composition of the Atmosphere	<ul style="list-style-type: none"> -The composition of the Earth's atmosphere -How the atmosphere is important to living things 	-p. 223 Section 1 Assessment	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Brainpop.com
	Layers of the Atmosphere	<ul style="list-style-type: none"> -The four main layers of the atmosphere -Characteristics of each layer 	-p.235 Section 3 Assessment	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Brainpop.com

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March/April	Pollution	<ul style="list-style-type: none"> -Major sources of air pollution -Causes of smog and acid rain -How to improve air quality -Cars and clean air 	<ul style="list-style-type: none"> -p. 239 section 4 Assessment -p. 243 You Decide Assessment 	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Brainpop.com
	Global Changes in the Atmosphere	<ul style="list-style-type: none"> -Changes that cause short term climate changes -How human activities might be affecting the temperature of Earth's atmosphere -How human activities have effected the ozone -Greenhouse effect -Environmental Issues 	<ul style="list-style-type: none"> -p. 355 Section 4 Assessment -Pollution Assessment (May) 	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Brainpop.com

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May/June	States of Matter	<ul style="list-style-type: none"> -Characteristics of a solid -Characteristics of a liquid -Characteristics of a gas -Changes of state 	<ul style="list-style-type: none"> p. 193 Section 1 Assessment -States of Matter Assessment 	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Brainpop.com
	Scientific Method	<ul style="list-style-type: none"> -Step-by-step approach to solving problems -Applications in a formal Lab Write-up (i.e. differentiating between Independent and Dependent Variables) -Developing hypotheses, designing experiments, interpreting data, drawing conclusions and communicating -Lab Write-up Vocabulary 	<ul style="list-style-type: none"> -Lab Write-up for the "Paper Towel" Lab 	<ul style="list-style-type: none"> -Prentice Hall Science Explorer Text -Science Horizons Text -Adapted Workbook -Prentice Hall Lab Manual -Brainpop.com

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June	Review for 6 th Grade Science Final	Cumulative Review	Final Exam	-Review Packet and Teacher-Distributed Materials -Student collected Notes/ Handout Materials etc.

NOTE: *Please be advised---All units will include various notes, overheads, hand-outs, and manipulatives.*