"Our mission is to prepare each student to be a successful and responsible member of society." North Smithfield School District

Sixth Grade Science Curriculum

North Smithfield Scope and Sequence SCIENCE Curriculum: K-12

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Earth's Atmosphere Unit Design

Grade 6

Texts to be used:

Earth's Atmosphere (EA)

McDougal Littell & *Unit Resource Book (URB) where noted

RI Statements of Enduring Knowledge - (Established Goals):

- ESS1 The Earth and earth materials as we know them today have developed over long periods of time, through continual change processes.
- ESS2 The earth is part of a solar system, made up of distinct parts that have temporal and spatial interrelationships.
- PS1 All living and nonliving things are composed of matter having characteristic properties that distinguish one substance from another (independent of size or amount of substance).
- PS2 Energy is necessary for change to occur in matter. Energy can be stored, transferred, and transformed, but cannot be destroyed.

Related Rhode Island GSE's	RI Assessment Targets
(Understandings)	Assessment Evidence
ESS1 (5-6)–2 Students demonstrate an understanding of processes and change over time within earth systems by 2a diagramming, labeling and explaining the processes of the water cycle including evaporation, precipitation, and run-off, condensation, transpiration, and groundwater. 2b explaining how condensation of water vapor forms clouds which affects climate and weather. 2c developing models to explain how humidity, temperature, and altitude affect air pressure and how this affects local weather. 2d identifying composition and layers of earth's atmosphere. ESS1 (5-6)–4	ESS1 (5-8) SAE-2 Explain the processes that cause the cycling of water into and out of the atmosphere and their connections to our planet's weather patterns. Text reference: 2.3, pp.56-63 (EA) Investigation: How does condensation occur? P.56 Class Discussion: Water Cycle p.57 EA) Discuss the Carbon Cycle; The nitrogen cycle Investigation p.59, How does a cloud form? URB P. 113 ESS1 (5-8) SAE+ POC -4 Explain the role of differential heating or convection in ocean currents, winds, weather and weather patterns, atmosphere, or climate. Text reference 4.0-4.3, pp. 114-139 Investigation: How does the angle of light affect heating? P. 117, (EA) Investigation: How quickly do soil and water heat and cool? P. 119 (EA) Class discussion: Climate classification; p.127 (EA)

ESS2 (7-8)-8

Students demonstrate an understanding of temporal or positional relationships between or among the Earth, sun, and moon by ...

8a <u>Using or creating a model of the Earth, sun and moon</u> system to show rotation and revolution.

8b explaining night/day, seasons, year, and tides as a result of the regular and predictable motion of the Earth, sun, and moon.

8c using a model of the Earth, sun, & moon to recreate the phases of the moon.

ESS2 (5-6)-8

Students demonstrate an understanding of temporal or positional relationships between or among the Earth, sun, and moon by ...

8a <u>Using models to describe the relative position/motion of the Earth, sun, and moon.</u>

8b explaining night/day, seasons, year, and tides as a result of the regular and predictable motion of the Earth, sun, and moon.
8c using a model of the Earth, sun, &moon to recreate the phases of the moon.

PS2 (5-8) Students demonstrate an understanding of processes and change over time within earth systems by ...

4a explaining how differential heating and convection affect Earth's weather patterns.

4b <u>describing how differential</u> <u>heating of the oceans affects</u> ocean currents which in turn influence weather and climate.

4c explaining the relationship between differential heating /convection and the production of winds.

4d <u>analyzing global patterns of atmospheric movements to explain effects on weather.</u>

4e predicting temperature and precipitation changes associated with the passing of various fronts.

ESS2 (5-8) SAE+ POC -8

Explain temporal or positional relationships between or among the Earth, sun, and moon (e.g., night/day, seasons, year, tides) or how gravitational force affects objects in the solar system (e.g., moons, tides, orbits, satellites)

Text reference: Chapter 2.2 pp.47-55 (EA)

- Investigation: How does the Earth's shape affect solar heating? P. 47 (EA)
- Investigation: How does the Earth's rotation affect wind? (Coriolis effect) P.49 (EA)
- URB p.102
- Class discussion "Global Winds" p. 51 (EA)

Class discussion "Navigate the Jet Stream" p. 55 (EA)

- Text reference 4.0-4.3, pp. 114-139
- Investigation: How does the angle of light affect heating? P. 117, (EA)
- Investigation: How quickly do soil and water heat and cool? P. 119 (EA)
- URB P. 119

Class discussion: Climate classification; p.127 (EA)

PS1 (5-8) SAE+MAS - 4

Represent or explain the relationship between or among energy, molecular motion, temperature, and states of matter.

- Text Reference: Chapter 1 pp. 9-25(EA)
- Investigation: "How heavy is paper?"p.7 (EA)
- Investigation: How does air affect falling objects? (EA)
- Investigation: How do you know that air has different gases? P.10 (EA)
- URB P.23
- Discuss the Carbon Cycle; The nitrogen cycle
- Text reference: 2.3, pp.56-63 (EA)
- Text reference 2.1-2.2 pp. 43-54(EA)
- Investigation; What does air do to the egg? P. 43 (EA) or use Spangler Video
- Investigation: How can you measure changes in air pressure? P. 45, (EA)
- URB P. 91
- Class discussion p. 48 "How Wind Forms"

PS1 (7-8) -1

Students demonstrate an understanding of characteristic properties of matter by ...

1a measuring mass and volume of both regular and irregular objects and using those values as well as the <u>relationship D=m/v</u> to calculate density

PS1(7-8) - 4

Students demonstrate an understanding of states of matter by ...

4c observing the physical processes of evaporation and condensation, or freezing and melting, and <u>accounting for these changes in terms of molecular motion and conservation</u> of mass.

PS2 (7-8) -7

Students demonstrate an understanding of heat energy by...

7b explaining the difference among <u>conduction</u>, <u>convection</u> and <u>radiation</u> and <u>creating</u> a diagram to explain how heat energy <u>travels in different directions and through different materials by</u> each of these methods.

PS2 (5-8) INQ+SAE+POC - 7

Use data to draw conclusions about how heat can be transferred (convection, conduction, radiation).

- Investigation: How does heating affect air? P.7 (EA)
- Natural processes modify the atmosphere: ; The water cycle p. 12 EA
- Text reference: 1.3 pp.22-25 (EA)
- Investigation: Can you feel radiation?
- Discuss the Ozone Layer, p. 23 (EA)

PS1 (5-8) INQ-1

Investigate the relationships among mass, volume and density

• Text reference: 2.3, pp.56-63 (EA)

Additional Resources: PBS Video Streaming

Texts to be used: McDougal Littell & *Unit Resource Book (URB) where noted		Earth's Atmosphere (EA)		
1	Focus Questions (Essential Questions) What is the atmosphere?	Instruction Investice Investice • Text Reference (EA) pp.9-25 • Investigation paper?"p.7 (Investigation air? P.7 (EA) • Investigation falling object • Investigation	: "How heavy is EA) : How does heating affect) : How does air affect	Big Ideas (Understandings) The atmosphere is the layer of gases surrounding Earth and moves energy. Weather happens in the troposphere. The troposphere is the mixture of nitrogen, oxygen and other gases, including water vapor. Air has mass and can be compressed. The atmosphere acts as a greenhouse keeping the Earth warm.
2	What is Weather?	atmosphere:	esses modify the Discuss the Carbon itrogen cycle; The water EA	 Weather is the condition of Earth's atmosphere at a given time in a given place. Severe weather occurs all over the Earth. Meteorology is the science of weather, and meteorologists are the people who study Earth's weather.
3	What causes radiation and conduction?	 Investigation P.22 	ce: 1.3 pp.22-25 (EA) i: Can you feel radiation? Ozone Layer, p. 23 (EA)	 Heat is kinetic energy of atoms and molecules. The Sun is the major source of energy that heats the atmosphere. Energy moves from one material to another by radiation and conduction. Gases in the atmosphere absorb radiation

4	What affects weather throughout the world? & What causes the seasons?	 Text reference: Chapter 2.2 pp.47-55 (EA) Investigation: How does the Earth's shape affect solar heating? P. 47 (EA) Investigation: How does the Earth's rotation affect wind? (Coriolis effect) P.49 (EA) URB p.102 Class discussion "Global Winds" p. 51 (EA) Class discussion "Navigate the Jet Stream" p. 55 (EA) 	 Earth's axis of rotation tilted at an angle of 23.5 degrees and always points at the North Star. The angle at which light from the Sun strikes the surface of Earth is the solar angle. Coriolis effect Jet stream and weather patterns
5	What is energy transfer? How does energy transfer cause convection?	Text reference: 2.3, pp.56-63 (EA)	 Density is the ratio of a mass and its volume. As matter heats up, it expands, causing the matter to become less dense. Convection is the circulation of fluid that results from energy transfer.
6	How does water does water get into the air? How does water condense out of the air?	 Text reference: 2.3, pp.56-63 (EA) Investigation: How does condensation occur? P.56 Class Discussion: Water Cycle p.57 (EA) Investigation: How does a cloud form? P.59 URB P. 113 	 Water changes from gas to liquid by condensation. Water changes from liquid to gas by evaporation of water; water condenses to form clouds; water falls to the earth's surface via precipitation. The process involves heat from the surroundings. A water molecule might follow many different paths as it travels in the water cycle.

7	What is the relationship between air pressure and wind?	 Text reference 2.1-2.2 (EA) pp.43-54 Investigation; What does air do to the egg? P. 43 (EA) Investigation: How can you measure changes in air pressure? P. 45, (EA) URB P.91 Class discussion p. 48 "How Wind Forms" 	 Pressure exerted on a gas reduces its volume and increases its density. Differential heating of Earth's surface by the Sun can create high- and low- pressure areas. Wind is a movement of air from an area of high pressure to an area of low pressure. Local winds blow in predictable ways determined by local differential heating. Wind speed is measured with an instrument called an anemometer. Air pressure is represented on a map by contour lines called isobars.
8	What is climate? What is the difference between weather and climate?	 Text reference 4.1-4.3, pp. 114-139 Investigation: How does the angle of light affect heating? P. 117, (EA) Investigation: How quickly do soil and water heat and cool? P. 119 (EA) URB p.119 Class discussion: Climate classification; p.127 (EA) 	 Air masses are large bodies of air that are uniform in temperature and humidity. A front is a boundary that separates two air masses. Weather conditions change as a front passes by. Climate is the average weather over time.

The Earth's Surface

Grade 6

Text to be used:

The Earth's Surface (ES)

McDougal Littell & *Unit Resource Book (URB) where noted

RI Statements of Enduring Knowledge - (Established Goals):

- ESS1 The Earth and earth materials as we know them today have developed over long periods of time, through continual change processes.
- ESS2 The earth is part of a solar system, made up of distinct parts that have temporal and spatial interrelationships.
- PS2 Energy is necessary for change to occur in matter. Energy can be stored, transferred, and transformed, but cannot be destroyed.

Related Rhode	Island	GSE's
/Understa	\opgingo\	

(Understandings)

ESS1 (5-8) INQ+ POC -1

Use geological evidence provided to support the idea that the Earth's crust/lithosphere is composed of plates that move.

RI Assessment Targets
Assessment Evidence

- Text Reference: Chapter 1.1 -1.4 pp.6-30 (ES)
- Investigation: P.7 Explore; Using Modern Maps (ES)
- Investigation:p.13 How can you model the geosphere's layers?
- URB p.20
- Investigation: p.15 What makes a good map? (ES)
- Math connection: Activity, p.23 How far is it? (ES)
- Investigation: P.28 Topographic Maps (ES)
- URB P. 61-63
- Investigation: P. 32 Satellite imaging (ES)

ESS1 (5-6)-1

Students demonstrate an understanding of processes and change over time within earth systems by ...

1a identifying and describing the layers of the earth.

1b plotting location of volcanoes and earthquakes and explaining the relationship between the location of these phenomena and faults.

Students demonstrate an understanding of characteristic properties of matter by ...

1a measuring mass and volume of both regular and irregular objects and using those values as well as the relationship D=m/v to calculate density.

ESS1 (7-8)-3Students demonstrate an

understanding of processes and change over time within earth systems by ...

3a <u>evaluating slow processes</u> (e.g. <u>weathering, erosion, mountain building, sea floor</u> spreading) to determine how the earth has changed and will continue to change over time.

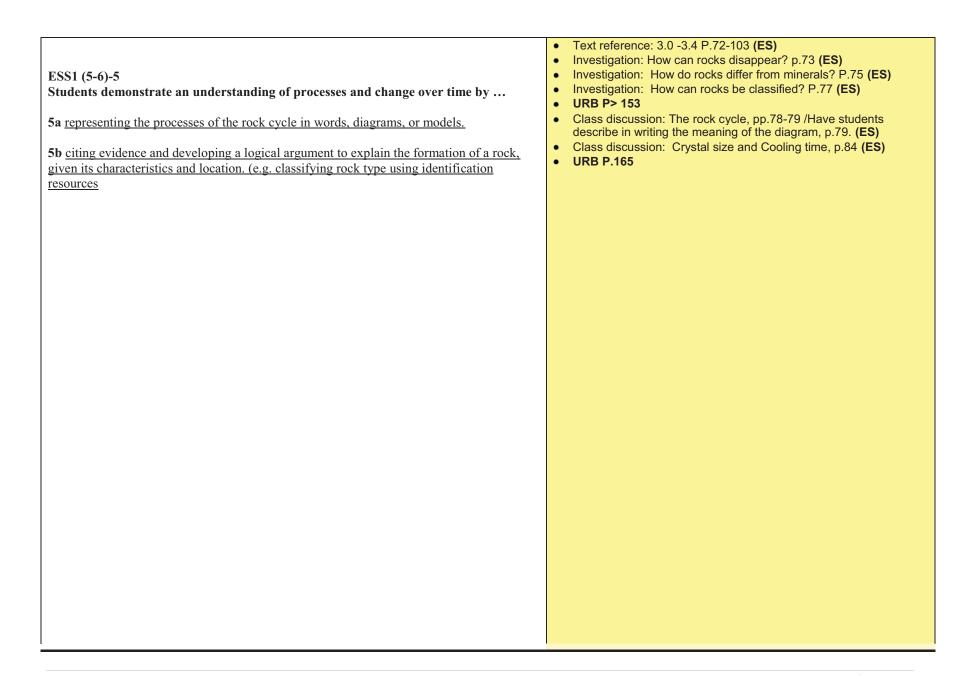
3b evaluating fast processes (e.g. erosion, volcanoes and earthquakes) to determine how the earth has changed and will continue to change over time.

3c investigating the effect of flowing water on landforms (e.g. stream table, local environment).

ESS1 (5-8) INQ+ POC -5

Using data about a rock's physical characteristics make and support an inference about the rock's history and connection to rock cycle.

- Text reference: 2.1 -2.3,pp. 40-61(ES)
- Investigation: Explore: How do you turn water into a mineral and what makes up rocks? P.41 (ES)
- Investigation: What are some characteristics of a mineral? P.43
 (ES)
- Investigation: How do crystals differ in shape? P.46 (ES)
- URB p.40
- Investigation; Hardness of minerals, p.56 (ES)
- URB p.102
- Investigation; 58-59 Mineral Identification, (ES)
- Class discussion: Mineral Formation, reading diagram, p.63 (ES)
- Introduce density: No algebraic manipulations, just using concept and formula. This will again be used in grade 8.



	Text to be used:			
	McDouga	al Littell & *Unit Resource Book (URB)	where noted The Earth's Surface (ES)	
	Focus Questions (Essential Questions)	Instructional Activities & Investigations (INQ)	Big Ideas (Understandings)	
1	How has technology changed our view of the earth?	 Text Reference: Chapter 1.0-1.1 -1.4 pp.6-30 (ES) Investigation: P.7 Explore; Using Modern Maps (ES) Investigation:p.13 How can you model the geosphere's layers? URBP.20 Investigation: p.15 What makes a good map? (ES) Math connection: Activity, p.23 How far is it? (ES) Investigation: P.28 Topographic Maps (ES) URB P.61-63 Investigation: P. 32 Satellite imaging (ES) 	 Mapping the Earth's surface What are the layers of the Geosphere? Earth has four main layers: crust, mantle, outer core, and inner core All four parts of the Earth's system, atmosphere, hydrosphere, geosphere, and biosphere helped shape the earth's surface. 	
2	What are characteristics used to identify minerals?	 Text reference: 2.0 -2.3,pp. 40-61(ES) Investigation: Explore: How do you turn water into a mineral and what makes up rocks? P.41 (ES) Investigation: What are some characteristics of a mineral? P.43 (ES) Investigation: How do crystals differ in shape? P.46 (ES) URB P>40 	 Minerals have a definite chemical makeup/composition Each mineral has its own crystal structure Minerals are grouped according to composition 	

3	How are properties used to identify minerals?	 Investigation; Hardness of minerals, p.56 (ES) Investigation; 58-59 Mineral Identification, (ES) Class discussion: Mineral Formation, reading diagram, p.63 (ES) Introduce density: No algebraic manipulations, just using concept and formula. This will again be used in grade 8. 	 A mineral's appearance helps identify it. Color and streak Luster Mineral breakage help identify structure: Cleavage and Fracture Density and hardness can be used to identify minerals Hardness is measured on the Mohs Scale
4	What is the rock cycle?	 Text reference: 3.0 -3.4 P.72-103 (ES) Investigation: How can rocks disappear? p.73 (ES) Investigation: How do rocks differ from minerals? P.75 (ES) Investigation: How can rocks be classified? P.77 (ES) URB P.153 Class discussion: The rock cycle, pp.78-79 /Have students describe in writing the meaning of the diagram, p.79. (ES) Class discussion: Crystal size and Cooling time, p.84 (ES) URB P.165 	 Teaching note: <u>Using the Earth's Surface text</u> (ES) for pages cited, review "Rock Cycle" with students. Students in grade four use FOSS kit, Earth Materials that lays a foundation for introducing or review ing the rock cycle. This is a foundation to begin "Plate tectonics" study. The Rock Cycle shows how rocks change over time Igneous rocks form from molten rock Sedimentary rock forms from earlier rock Metamorphic rocks form as existing rocks change.

9	What is the geological evidence for plate movement?	 Text reference: 4.0 -4.3,pp.110 - 137, (CE) Investigation: How do you know what happened? P. 109, (CE) Investigation: What can we learn from a rock? P. 111, (CE) Investigation: Learning from tree rings, p. 116, (CE) Class discussion: Assign groups rock layer photos in text and find evidence and claims from text, Section 4.2, pp.119-125, (CE) Introduce half-life using an investigation of pennies and beans. Stary with fixed number of pennies and gradually change into beans by replacement. Emphasize graphing and time measured in "throws." Then connect to reading and discussion of text graph, "Dating Mammoth Bones",p.126, (CE) 	 Earth's past is revealed in rocks and fossils Rocks provide a timeline for Earth Plate Tectonics theory explains the geological time scale of the earth's surface Fossil evidence Radioactivity evidence – Dating fossil evidence
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Space Science

Middle School -Grade 6

Texts to be used:

McDougal Littell & *Unit Resource Book (URB) where noted

Space Science (SS)

RI Statements of Enduring Knowledge - (Established Goals):

ESS2 The earth is part of a solar system, made up of distinct parts that have temporal and spatial interrelationships.

PS2 Energy is necessary for change in matter. Energy can be stored,

transferred, and transformed, but cannot be destroyed.

PS3 The motion of an object is affected by forces.

Related Rhode Island GSE's	RI Assessment Targets
(Understandings)	Assessment Evidence
SS2 (7-8) -8 Students demonstrate an understanding of gravitational relationships between or among objects of the solar system by 8f explaining that the sun's gravitational pull holds the Earth and other planets in their orbits, just as the planet's gravitational pull keeps their moons in orbit. The following are just introduced at the grade six level but, will be discussed in more depth at grade 8 with Forces & Motion ESS2 (5-6)-8 Students demonstrate an understanding of gravitational relationships between or among objects of the solar system by 8d defining the Earth's gravity as a force that pulls any object on or near the Earth toward its center without touching it. ESS2 (7-8)-8 Students demonstrate an understanding of gravitational relationships between or among objects of the solar system by 8f explaining that the sun's gravitational pull holds the Earth and other planets in their orbits just as the planet's pull keeps their moon's in orbit.	ESS2 (5-8) SAE+ POC -8 Explain temporal or positional relationships between or among the Earth, sun, and moon (e.g., night/day, seasons, year, tides) or how gravitational force affects objects in the solar system (e.g., moons, tides, orbits, satellites). Reference Chapter 2.0-2.2, pp.40 -51 (SS) Investigation "How do shadows move?" P41 (SS) Activity "What time is it in Iceland right now?" p.43 (SS) URB P.91 Investigation: What causes day and night? P.44 (SS) Class discussion: Interpreting and modeling "Seasons" diagram, p. 47 (SS) -Earth's Tilted axis and orbit: URB P.92 Investigation: Modeling Seasons" p. 50 & 51 (SS) URB pp. 124-132 Reference Chapter 2.3 pp.58-66 (SS) Investigation: Why does the moon seem to change shape? P.62 (SS) URB P. 114 Investigation: Moon Features, p. 55, (SS)

		Space Science (SS)	
	Focus Questions (Essential Questions)	& *Unit Resource Book (URB) where noted Instructional Activities & Investigations (INQ)	Big Ideas (Understandings)
1	What keeps planets in orbit around the sun? What keeps "moon(s) orbiting planets?	 Reference Chapter 2.0-2.2, pp.40 -51 (SS) Investigation "How do shadows move?" P.41 (SS) Activity "What time is it in Iceland right now?" p.43 (SS) URB P.91 	 The sun's gravitational pull holds the Earth and other planets in their orbits, just as the planet's gravitational pull keeps their moons in orbit. The annual orbit around the sun is 365 ¼ days approximately.
2	What causes day & night? What causes seasons? What causes tides, that we observe on earth?	 Investigation: What causes day and night? P.44 (SS) Class discussion: Interpreting and modeling "Seasons" diagram, p. 47 (SS) - Earth's Tilted axis and orbit: URB P.92 	 The rotation of the Earth on its axis =24 hours The tilt of the Earth on its axis is 23.5 degrees as it orbits the sun (365.25 days) The moon's gravitational attraction on the earth causes the tides.
3	How is the motion and orbit of the earth affected by other bodies such as the sun and moon? How are the phases of the moon related to the earth/moon/sun relative positions.	 Investigation: Modeling Seasons" p. 50 & 51 (SS) URB pp. 124-132 Reference Chapter 2.3 pp.58-66 (SS) Investigation: Why does the moon seem to change shape? P.62 (SS) URB P. 114 	 The tilt of the earth on its axis of ration (23.5 degrees) causes the seasons and the seasons are reversed in the two hemispheres. Tides are caused by the moon's gravitational pull on the earth due to its proximity. The phases of the moon related to the earth/moon/sun relative position
4	How did the Moon's features form?	 Investigation: Moon Features, p. 55, (SS) URB P. 103 	The Moon's surface, as did the Earth's, changed over time

Life Over Time (LOT)

Grade 6

Texts to be used:

McDougal Littell & *Unit Resource Book (URB) where noted

Life Over Time

RI Statements of Enduring Knowledge - (Established Goals):

- LS -1 All living organisms have identifiable structures and characteristics that allow for survival (organisms, populations, & species).
- LS 2 Matter cycles and energy flows through an ecosystem.
- LS 3 Groups of organisms show evidence of change over time (structures, behaviors and biochemistry).
- LS 3 Groups of organisms show evidence of change over time (structures, behaviors, and biochemistry).

Related Rhode Island GSE's	RI Assessment Targets
(Understandings)	Assessment Evidence
LS3 (7-8) – 8 Students demonstrate an understanding of	
classification of organisms by	LS3 (5-8) MAS+FAF – 8
	Use a model, classification system, or dichotomous key to illustrate,
8a sorting organisms with similar characteristics into	compare, or interpret possible relationships among groups of organisms
groups based on internal and external structures.	(e.g., internal and external structures, anatomical features.
	Text Reference; Chapter: Chapter 2.1-2.3(LOT)
8b explaining how species with similar evolutionary	Activity: How can you classify leaves? p.46(LOT) URB P.79
histories/characteristics are classified more closely together with some	Activity: What data do you need to identify objects? p.51(LOT)
organisms than others (e.g., a fish and human have more common with	Chapter Investigation: Making a Field Guide
each other than a fish and jelly fish)	
8c recognizing the classification system used in modern biology	
, ,	LS3 (5-8) – POC - 9
	Cite examples supporting the concept that certain traits of organisms
LS3 (7-8)-9	may provide a survival advantage in a specific environment and
Students demonstrate an understanding of	therefore, an increased likelihood to produce offspring.
Natural Selection/evolution by	Text Reference: Chapter 1.1(LOT) p.9-15
	Activity: What can you tell from the marks an object leaves behind? P. 9(LOT) Text Reference; Chapter: Chapter 1.2(LOT) p. 17-25
9a explaining the genetic variation/traits of	Chapter Investigation: Modeling Natural Selection, pp.26-27(LOT)
organisms are passed on through reproduction	URB P.150
and random genetic changes.	Text Reference; Chapter: Chapter 1.2(LOT) Chapter Investigation: Modeling Natural Selection, pp.26-27(LOT)
	Onapter investigation. modeling Natural Delection, pp.20-27 (EOT)

		Text to be Used :	
		McDougal Littell & *Unit Resource Book (URB) where noted	Life Over Time (LOT)
1	 How do scientists learn about the history of life on Earth? How do you classify living things? What are kingdoms of living organisms? 	Text Reference; Chapter 1.1(LOT) p.9-15 Activity: What can you tell from the marks an object leaves behind? p.9(LOT) Text Reference; Chapter 2.1-2.3(LOT) p.43-67 Activity: How can you classify leaves? p.46(LOT) URB P.79 Activity: What data do you need to identify objects? p.51(LOT) Chapter Investigation: Making a Field Guide(LOT) p.68-69	 Living things, like Earth itself, change over time. Scientists have developed a system for classifying the great diversity of living things.
2	 What is natural selection? How do scientists learn about the history of life on Earth? How do you classify living things? What are kingdoms of living organisms? 	Text Reference; Chapter 1.2(LOT) p.17-25 Chapter Investigation: Modeling Natural Selection, pp.26-27(LOT) URB P. 150 Text Reference; Chapter 1.1(LOT) p.9-15 Activity: What can you tell from the marks an object leaves behind? p.9(LOT)	 Darwin developed the theory of natural selection Survival of organisms determines pool availability to adapt and reproduce.