

## 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).

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

		<b>Text to be Used :</b>	
		<b>McDougal Littell</b> & *Unit Resource Book (URB) where noted	<ul style="list-style-type: none"> <li>• <b>Life Over Time (LOT)</b></li> </ul>
1	<ul style="list-style-type: none"> <li>• How do scientists learn about the history of life on Earth?</li> <li>• How do you classify living things?</li> <li>• What are kingdoms of living organisms?</li> </ul>	<p>Text Reference; Chapter 1.1(<b>LOT</b>) p.9-15 Activity: What can you tell from the marks an object leaves behind? p.9(<b>LOT</b>)</p> <hr/> <p>Text Reference; Chapter 2.1-2.3(<b>LOT</b>) p.43-67</p> <p>Activity: How can you classify leaves? p.46(<b>LOT</b>) <b>URB P.79</b></p> <p>Activity: What data do you need to identify objects? p.51(<b>LOT</b>) Chapter Investigation: Making a Field Guide(<b>LOT</b>) <b>p.68-69</b></p>	<ul style="list-style-type: none"> <li>• Living things, like Earth itself, change over time.</li> <li>• Scientists have developed a system for classifying the great diversity of living things.</li> </ul>
2	<ul style="list-style-type: none"> <li>• What is natural selection?</li> <li>• How do scientists learn about the history of life on Earth?</li> <li>• How do you classify living things?</li> <li>• What are kingdoms of living organisms?</li> </ul>	<p>Text Reference; Chapter 1.2(<b>LOT</b>) p.17-25 Chapter Investigation: Modeling Natural Selection, pp.26-27(<b>LOT</b>) <b>URB P. 150</b></p> <p>Text Reference; Chapter 1.1(<b>LOT</b>) p.9-15 Activity: What can you tell from the marks an object leaves behind? p.9(<b>LOT</b>)</p>	<ul style="list-style-type: none"> <li>• Darwin developed the theory of natural selection</li> <li>• Survival of organisms determines pool availability to adapt and reproduce.</li> </ul>