

Correlation of
Seeds of Science/Roots of Reading[®]
Integrated Science and Literacy Units

with the Alabama
Science Standards for Grade 1

Created November 2011



Seeds of Science/Roots of Reading[®] was created with partial support from the National Science Foundation under grant numbers ESI-0242733 and ESI-0628272. The program was created by a team at the Lawrence Hall of Science at the University of California, Berkeley.

- ● ● = Addressed completely with explicit instruction and repeated learning opportunities.
- ● = Addressed partially with explicit instruction and some learning opportunities.
- = Touched upon, with a few learning opportunities and/or instruction may be expanded to more fully address this standard.

Alabama Science Standards – 1 st Grade	2 nd - 3 rd Grade				3 rd - 4 th Grade				4 th - 5 th Grade			
	Soil Habitats	Shoreline Science	Designing Mixtures	Gravity & Magnetism	Light Energy	Weather & Water	Variation and Adaptation	Digestion & Body Systems	Planets & Moons	Aquatic Ecosystems	Models of Matter	Chemical Changes
PHYSICAL SCIENCE												
1.) Select appropriate tools and technological resources needed to gather, analyze, and interpret data. Examples: platform balances, hand lenses, computers, maps, graphs, journals	● ● ●	● ● ●	● ● ●	● ● ●								
2.) Identify basic properties of objects. Examples: size, shape, color, texture	● ●	● ● ●	●	● ●								
3.) Describe effects of forces on objects, including change of speed, direction, and position.												
LIFE SCIENCE												
4.) Describe survival traits of living things, including color, shape, size, texture, and covering.	●	●										
• Classifying plants and animals according to physical traits Examples: - animals-six legs on insects, - plants-green leaves on evergreen trees	●	●										
• Identifying developmental stages of plants and animals Examples: - plants-seed developing into seedling, seedling developing into tree; - animals-piglet developing into pig, kid developing into	●	●										

- ● ● = Addressed completely with explicit instruction and repeated learning opportunities.
- ● = Addressed partially with explicit instruction and some learning opportunities.
- = Touched upon, with a few learning opportunities and/or instruction may be expanded to more fully address this standard.

Alabama Science Standards – 1 st Grade	2 nd - 3 rd Grade				3 rd - 4 th Grade				4 th - 5 th Grade			
	Soil Habitats	Shoreline Science	Designing Mixtures	Gravity & Magnetism	Light Energy	Weather & Water	Variation and Adaptation	Digestion & Body Systems	Planets & Moons	Aquatic Ecosystems	Models of Matter	Chemical Changes
goat												
• Describing a variety of habitats and natural homes of animals	••	••										
5.) Identify parts of the human body, including the head, neck, shoulders, arms, spine, and legs.												
• Recognizing the importance of a balanced diet for healthy bones												
• Discussing the relationship of muscles and bones to locomotion												
• Discussing the relationship of bones to protection of vital organs Example: protection of brain by skull												
• Identifying technology used by scientists to study the human body Examples: X-ray images, magnetic resonance imaging (MRI)												
6.) Recognize evidence of animals that no longer exist.												
EARTH AND SPACE SCIENCE												
7.) Identify components of Earth's surface, including soil, rocks, and water.	••	•••										
8.) Recognize daily changes in weather, including clouds, precipitation, and temperature.												
• Recognizing instruments used to observe weather Examples: thermometer, rain gauge, wind sock, weather vane												

- = Addressed completely with explicit instruction and repeated learning opportunities.
- = Addressed partially with explicit instruction and some learning opportunities.
- = Touched upon, with a few learning opportunities and/or instruction may be expanded to more fully address this standard.

Alabama Science Standards – 1 st Grade	2 nd - 3 rd Grade				3 rd - 4 th Grade				4 th - 5 th Grade			
	Soil Habitats	Shoreline Science	Designing Mixtures	Gravity & Magnetism	Light Energy	Weather & Water	Variation and Adaptation	Digestion & Body Systems	Planets & Moons	Aquatic Ecosystems	Models of Matter	Chemical Changes
• Recording weather data using weather journals, charts, and maps												
9). Identify ways to conserve Earth's resources. Example: turning off lights and water when not in use	• •	• •										
10) Describe uses of recycled materials. Examples: manufacture of paper products from old newspapers, production of mulch from trees		• •										
11.) Compare the day sky to the night sky as observed with the unaided eye.												

- • • = Addressed completely with explicit instruction and repeated learning opportunities.
- • = Addressed partially with explicit instruction and some learning opportunities.
- = Touched upon, with a few learning opportunities and/or instruction may be expanded to more fully address this standard.