

Grade 4 Curriculum map

Life Science: Animal Studies - Carolina Biological

Key concepts	Standards	Assessments	Content	Skills	Lessons
Students will understand ...		Students will demonstrate their learning by	Students will know ...	Students will be able to ...	
that organisms interact with their environments	S4.B.1.1 S4.B.2.1 S4.B.3.1 S4.B.3.2 S4.B.3.3 S4.A.3.2	*Record Sheets *Notebook entries/Drawings *Discussion	that organisms have characteristics necessary for survival.	*describe the connection between an organisms' characteristics, their needs, and the environment they live in.	Lessons 2 - 6 Lesson 8 Lesson 9
	S4.B.1.1 S4.B.2.1 S4.B.3.2	*Record Sheets *Notebook entries/Drawings *Teacher observation *Discussion		*explain animal adaptations/ characteristics necessary for survival.	Lesson 4 Lesson 6 Lesson 9 Lesson 15
	S4.A.3.1 S4.B.1.1 S4.B.2.1 S4.B.3.1	*Record Sheets *Notebook entries *Teacher observation *Discussion	an organism's interactions with non-living components of their habitat.	*describe how living things depend on non-living things for survival.	Lesson 2 Lesson 10 Lesson 11 Lesson 13
	S4.A.2.1 S4.A.3.2 S4.B.1.1 S4.B.2.1 S4.B.3.1	*Record Sheets *Teacher observation *Discussion *Notebook entries		*investigate a particular organism's habitat	Lessons 1 - 17
	S4.B.1.1 S4.B.2.1 S4.B.3.1	*Creating habitat *Notebook entries *Discussion *Animal Log Checklist	the relationship of organisms within a habitat.	*describe how animals and plants interact to meet their needs.	Lesson 2 Lesson 3 Lesson 5 Lesson 8

	S4.A.1.3 S4.B.3.2	*Record Sheets *Discussion *Teacher observations *Notebook entries	factors that affect plant and animal survival in their habitat.	*describe changes in habitat that result from natural occurrences (weather, fire, flood, drought)	Lesson 10 Lesson 11
	S4.A.1.3 S4.B.3.2	*Notebook entries *Discussion		*describe changes in habitats that result from man-made occurrences (urban sprawl,	Lesson 10 Lesson 11
	S4.A.1.3			*compare extinct, endangered and threatened life forms and identify causes for their status.	

Physical Science: Electric Circuits - Carolina Biological					
Key concepts	Standards	Assessments	Content	Skills	Lessons
Students will understand...		Students will demonstrate their learning by ...	Students will know ...	Students will be able to ...	
nd magnetism.	S4.A.2.1 S4.C.3.1	*Notebook entries *Discussion	the behavior of magnets.	*determine which materials are attracted to magnets.	
	S4.A.2.1 S4.C.3.1	*Demonstration *Notebook entries *Teacher observation *Discussion		*observe that magnets attract or repel each other.	
	S4.A.2.1 S4.C.3.1	*Activity Sheet 1 *Notebook entries *Discussion		*explain the connection between a compass and a magnet.	
	S4.A.2.1 S4.C.1.1 S4.C.3.1	*Demonstration *Notebook entries *Teacher observation *Discussion		*observe magnetic fields.	

the interrelationship between force, energy and	S4.A.2.1 S4.C.3.1	*Activity Sheet 2 *Notebook entries *Teacher observation *Discussion	*electricity as a source of energy.	*experience attraction and repulsion with static electricity.	
	S4.A.2.1 S4.C.3.1	*Demonstration *Notebook entries *Teacher observation *Discussion		*recognize the difference between open and closed circuits.	Lesson 5 Lesson 12
	S4.A.2.1 S4.C.3.1	*Demonstration *Notebook entries *Discussion		*conduct experiments with electricity to understand energy flow.	Lessons 1 - 17
	S4.A.2.1 S4.C.2.1	*Demonstration *Notebook entries *Teacher observation *Discussion		*sort and identify examples of conductors and insulators.	Lesson 7
	S4.A.2.1 S4.C.2.1	*Activity Sheet 3 *Notebook entries *Teacher observation *Discussion		*know that batteries convert chemical energy into electrical energy.	Lesson 5
	S4.A.2.1 S4.C.2.1	*Demonstration *Discussion		*observe magnetism that is produced by electricity flowing through a wire (electromagnetism).	Lesson 2 Lesson 8

Earth Science: Land and Water - Carolina

Key concepts	Standards	Assessments	Content	Skills	Lessons
Students will understand...		Students will demonstrate their learning by	Students will know ...	Students will be able to ...	
	S4.D.1.1 S4.D.1.3 S4.A.3.2		tures.	*identify Earth's terrestrial (e.g. mountain, hill, plateau, plains).	Lesson 1 Lesson 7 Lesson 8 Lesson 11 Lesson 15

Earth's surface changes over time.

S4.D.1.1 S4.D.1.3 S4.A.3.2		the formation of the Earth's features	*identify Earth's water features (e.g. oceans, seas, lakes, rivers, streams).	Lesson 1 Lesson 2 Lesson 4 Lesson 8 Lesson 9 Lesson 10 States and Regions p. 47
S4.D.1.1			*identify causes for terrestrial change (e.g. erosion, weathering).	Lesson 1 Lesson 3 Lesson 4 Lessons 7 - 17 States and Regions Chapter 1 Core lesson 2
S4.D.1.1 S4.D.1.3		the impact of water on terrestrial Earth.	*explain the role and relationship between global, national, and local water sheds/drainage basins.	States and Regions Chapter 1 Core lesson 2
S4.D.1.1 S4.A.3.2			*identify shoreline features (e.g. bay, inlet, marsh).	States and Regions Chapter 3 Core lesson 1
S4.D.1.3		fossil formation.	*research the impact that various water systems have on shorelines.	States and Regions Chapter 3 Core lesson 1
			*recognize different types of fossils.	
			*list steps involved in fossilization.	
S4.D.1.1			*relate rapid and slow surface changes to fossil formation.	

Earth's resources.			fo	*identify climate and conditions for fossil formation.	
	S4.D.1.2		types of resources	*contrast new and renewable resources.	States and Regions Chapter 1 Core lesson 3
	S4.D.1.2 S4.A.3.1			*distinguish between man made and natural resources.	States and Regions Chapter 1 Core lesson 3
	S4.D.1.2 S4.A.1.1 S4.A.3.1		the value and uses of the Earth's resources	*identify, describe, and locate types of important world, national and local resources.	
	S4.A.1.1			*research conservation methods for Earth's resources.	States and Regions Chapter 10
	S4.D.1.2 S4.A.1.1 S4.A.3.1			*list several uses of important resources.	States and Regions Chapter 1 Core lesson 3

Grade 4 Earth & Space Science

Key concepts	Standards	Assessments	Content	Skills	Lessons
Students will understand...		Students will demonstrate their learning by	Students will know ...	Students will be able to ...	
ons of objects in the sky.	S4.A.3.2 S4.D.3.1		characteristics of planets.	*describe planets using two or more characteristics.	
	S4.A.3.2 S4.D.3.1			*compare and contrast Earth's surface with other planets.	
	S4.A.3.2 S4.D.3.1			*describe positions of planets in relationship to the sun.	
	S4.A.3.2 S4.D.3.1		s.	*investigate planetary orbits including period, rotation, and distance.	

characteristics and moti

S4.A.3.2	
S4.A.3.3	
S4.D.3.1	
S4.A.3.2	
S4.A.3.3	
S4.D.3.1	
S4.A.3.2	

solar system motion

*recognize that the Earth's tilt and revolution around the sun creates the seasons.	
*observe and identify phases and eclipses of the moon.	
*create a model to show the relationships in the Earth-Sun-Moon system	