Rose Hamilton Elementary Curriculum Mapping Science – Grade 1 1st Nine Weeks

Units Lessons	Indiana Standards	Key Questions	Resources	Vocabulary	Assessments
Introduction Be A Scientist	1.1.1	What do scientists do? How do scientists work? How do scientists learn?	Textbook p. 2-16 Discussion Chart tablets for: KWL, Plan, Results and Conclusions Insect pictures	Observation Senses Compare Classify Infer Predict Investigate Conclusion	Student contributions to chart. Sort insect pictures from smallest to largest Participation in a shared writing using the scientific method to create a plan and results chart.
1.1.1 Use all se Unit 1		te to identify the component parts of objects and the m			
Properties of <u>Matter</u> Lesson 1 Describing Matter	1.1.1 1.1.2 1.1.3	What are things made of?	Textbook p. 20-31 Discussion Explore: Toy car to take apart projected by document camera Alt. Explore: two same color classroom items Foldables -copy p. 230 Quick Lab: p. 211 classroom objects	Property Matter	Class participation Evaluation p.28, 29

1.1.2 Characterize materials as solid or liquid, investigate their properties, record observations and explain the choices to others based on evidence (i.e., physical properties).
1.1.3 Experiment with simple methods for separating solids and liquids based on their physical properties.

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Unit 1	1.1.2	What is a solid? What is a liquid?	Textbook p. 32-45	Solid	Class participation
Lesson 2		What is a gas?	Discussion	Liquid	Evaluation p. 42, 43
Forms of Matter			Explore: Balloons,	Gas	
Matter			blocks, cups of water,		
			connecting cubes, string		
			Alt. Explore: pictures of		
			pairs of objects that can be		
			compared Foldables-copies p. 226		
			Quick Lab p. 212:		
			plastic cups, marbles,		
			water		
1.1.2 Character	ize materials as so	olid or liquid, investigate their properties, record observa	tions and explain the choices to	others based on evidence	e (i.e., physical properties).
Unit 1	1.1.3	What is a mixture? How can mixtures	Textbook p. 46-57	Mixture	Class participation
Lesson 3		be separated?	Discussion	Sieve	Evaluation p.54, 55
Separating Mixtures			Explore: Sand, birdseed,	Dissolve	Unit 1 Review Matter
WIXIU 65			sieves, cups, clear bin	Evaporate	review p. 58-64
			Alt. Explore: small		
			assorted objects same		
			color or material, bowls.		
			Foldable-copies p. 224		
			Quick Lab p. 213:		
			pennies, corks, classroom objects, pans of water		
113 Experime	nt with simple met	hods for separating solids and liquids based on their phy			

Additional Support/Resources: Science In Motion: www.macmillanmh.com http://nsdl.org/refreshers/science

Curriculum Mapping Science – Grade 1 2^{nd Nine Weeks}

Units Lessons	Indiana Standards	Key Questions	Resources	Vocabulary	Assessments
Unit 2 <u>Soil</u> Lesson 1 Types of Soil	1.2.1 1.2.3	What is found in soil?	Textbook p. 68-79 Discussion Explore: Sand, clay, loam, hand lenses, paper plates Alt. Explore: pictures of different kinds of soil to compare Foldable-copies p. 224 Quick Lab p. 214: magazines, crayons	Soil Sand Silt Clay	Class participation Evaluation p. 76, 77
	a variety of soil sa	erties of sand, clay, silt and organic matter. Look for e imples and describe in words and pictures the soil pro			
Unit 2 Lesson 2 How Soil Forms	1.2.2 1.2.4	What are the components of soil?	Textbook p. 80-91 Discussion Explore: soil, plates, sieve, hand lens, tweezers Alt. Explore: two kinds of soil to compare Foldable copies p. 224 Quick Lab p. 215: plastic containers, potting soil, lunch scraps	Decompose Nutrients	Class participation Evaluation p. 88, 89 Unit 2 Review Soil review p. 92-97

1.2.2 Choose, lest and use tools to separate soil samples into component parts. 1.2.4 Observe over time the effect of organisms like earthworms in the formation of soil from dead plants. Discuss the importance of earthworms in soil. Additional Support/Resources: Science In Motion: www.macmillanmh.com http://nsdl.org/refreshers/science

Curriculum Mapping Science – Grade 1 3^{rd Nine Weeks}

Units Lessons	Indiana Standards	Key Questions	Resources	Vocabulary	Assessments
Unit 3 Living Things And Their Environment Lesson 1 What Plants Need to Live	1.3.3	What do plants need to live?	Textbook p. 102-113 Discussion Explore: plants, hand lenses Alt. Explore: edible plants Foldable copies p. 225 Quick Lab p. 216: celery stalks, plastic cups, water, food coloring	Environment Leaves Stem Roots	Class participation Evaluation p. 112-113
	and explain that p a way to dispose o	lants and animals have basic needs for growth and f waste.	survival: plants need to take in water	and need light, and ani	mals need to take in water and
Unit 3 Lesson 2 What Animals Need to Live	1.3.3	What are animals' basic needs?	Textbook p. 114-125 Discussion Explore: terrarium. water, fish food, crickets, hand lenses Alt. Explore: photo cards 21-30 Foldable copies p. 224 Quick Lab p.217: magazines, scissors, paper,glue	Shelter Gills Habitat	Class participation Evaluation p. 122,123

and have a way to dispose of waste.

Unit 3	1.3.1	Where do plants and animals live?	Textbook p. 126-139	Habitat	Class participation
Lesson 3	1.3.4		Discussion	Adaptation	Evaluation p. 136,137
Land Habitats	1.3.5		Explore: magazine		
			pictures of plants, animals		
			and animals, paper,		
			crayons, scissors, glue,		
			world map in TE		
			Alt. Explore: drawing		
			paper		
			Foldable copies p. 224		
			Quick Lab p.218:		
			leaves, colored paper,		
			scissors, glue, crayons		

1.3.1 Classify living organisms according to variations in specific physical features (e.g., body coverings, appendages) and describe how those features may provide an advantage for survival in different environments.

1.3.4 Describe how animals; habitats, including plants, meet their needs for food, water, shelter and an environment in which they can live.

1.3.5 Observe and describe ways in which animals and plants depend on one another for survival.

Unit 3	1.3.1	What features help plants and animals	Textbook p. 140-151	fresh water	Class participation
Lesson 4	1.3.4	live in a water habitat?	Discussion	salt water	Evaluation p. 148,149
Water Habitats	1.3.5		Explore: aquarium,		Unit 3 Review Living
			pebbles, plant, water,		Things and Their Habitats
			goldfish, hand lenses, fish		review p. 152-158
			food		
			Alt. Explore: pictures of		
			water and land animals		
			Foldable copies p. 228		
			Quick Lab p. 219:		
			two jars, salt, measuring		
			spoons and cups, brine		
			shrimp eggs, hand lenses		

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Curriculum Mapping Science – Grade 1 4th Nine Weeks

Units Lessons	Indiana Standards	Key Questions	Resources	Vocabulary	Assessments
Unit 4 Using Natural and Human- <u>Made</u> <u>Materials</u> Lesson 1 Natural and Human-made Materials	1.4.1	What are properties of natural and human- made materials?	Textbook p. 162-173 Discussion Explore: sticky notes, pencils Alt. Explore: pairs of objects-natural and human-made to compare Foldable copies p. 227 Quick Lab p. 220: cotton plant, hand lenses	Natural Resources Human-made materials	Class participation Evaluation p. 170,171
1.4.1Use all ser Unit 4	nses as appropriat	e to sort objects as being composed of materials that a What are kinds of animal shelters?	re naturally occurring, human ma Textbook p. 174-187	de or a combination of th Tool	e two. Class participation
Lesson 2 Building Shelters			Discussion Explore: soil, plants, rocks, plastic bottles, water, pill bugs, plastic wrap, rubber bands Alt. Explore: pictures of natural and human-made animal shelters to classify Foldable copies p. 228 Quick Lab p. 221: aluminum pan, mud, sticks, leaves, water, photos of beaver dams	Lodge	Evaluation p. 188,189 Unit 4 Review Natural and Human-made Materials review p. 188-194

1.4.2 Choose two animals that build shelters within their habitats. Compare the shelters in terms of the materials and tools they use and the type and purpose of shelter they provide.

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Order Form MH12SACL IN Class Explore Kit Grade 1 Organized by Unit/Lesson/Activity

Item Description Unit 1	Lesson	Activity	TE page	Item #for reorder	Unit price
Toy Truck	1	Explore	22		
Marbles	2	Quick lab	212		
Strainer	3	Explore	48		
Birdseed	3	Explore	48		
Unit 2					
Hand lenses	1	Explore	70		
GEMS Silt	1	Explore	70	EM 2445600	\$2.20
Sand, Fine 1lb.	1	Explore	70	EM 2937700	\$3.15
Soil, Loam 1lb.	1	Explore	70	EM2733800	\$2.60
Soil, Potting	1	Explore	70	EM 2011000	\$3.40
Forceps	2	Explore	82		
Live Coupon, Earthworms	2	Extend	90	EM 2042000	\$20.00
Unit 3					
Live Coupon, Cricket	2	Explore	116	EM 2043300	\$17.00
Tropical Fish Food	2	Explore	116	EM 6023700	\$4.65
BAS Terrarium, Small Cage	2	Explore	116		• • • • • •
Live Coupon, Goldfish	4	Explore	142	EM 2730300	\$17.75
Gravel	4	Explore	142	EM 2938700	\$2.35
Brine Shrimp Eggs	4	Quick Lab	219	EM 2001100	\$5.25
Spoons, Measuring	4	Quick Lab	219		
Unit 4					
Live Coupon, Pill Bugs	2	Explore	176	EM 2041700	\$20.00
Pebbles, Stones	2	Explore	176	EM 2941500	\$3.45
Modeling Clay, Four Colors	2	Extend	186	EM 2002400	\$4.00
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Food Coloring, Blue	Unit 3?			EM 2191310	\$4.20
BAS Live Coupon, Pond Snail				EM 2043000	\$20.00