



Zula Modules

Correlation with NYC 1st Grade Science Scope and Sequence

Unit 1

Animal Diversity: How are animals alike and different?

<p>Identify, describe, and compare the physical structures of animals (e.g., body coverings, sensory organs, appendages, beaks)</p>	<p>Plants, Animals, and Life Cycles: <i>Marvel at Metamorphosis p. 4, 9, 11, 14, 15</i> <i>Find Facts About Frogs p. 4, 6, 7, 9, 12, 15, 17, (20)</i></p>
<p>Identify, in animals, the relationship between the physical structures and the functions of those structures (e.g., obtaining food and water, protections, movement, support).</p>	<p>Plants, Animals, and Life Cycles: <i>Marvel at Metamorphosis p. 9, 11, 14</i> <i>Find Facts About Frogs p. 4, 6, 9, 12</i></p>
<p>Compare and contrast the physical characteristics in animals.</p>	<p>Plants, Animals, and Life Cycles: <i>Marvel at Metamorphosis p. 11, 12, 14, 15, (20)</i> <i>Find Facts About Frogs p. 6, 7, 9, 12, 15, 17, (20)</i></p>
<p>Describe how physical traits help a species to survive (e.g., giraffe’s neck, turtle’s shell).</p>	<p>Plants, Animals, and Life Cycles: <i>Marvel at Metamorphosis p. 14</i> <i>Find Facts About Frogs p. 4, 9</i></p>
<p>Observe how animals grow and change in predictable ways:</p> <ul style="list-style-type: none"> • Animals closely resemble their parents and other individuals in their species. • Some traits of living things have been inherited (e.g., number of limbs). 	<p>Plants, Animals, and Life Cycles: <i>Marvel at Metamorphosis p. 6, 8, 9, 11, 12, (20)</i> <i>Find Facts About Frogs p. 4, 6, 9, 12, (20)</i></p>
<p>Describe animal life cycles and life spans (e.g., baby/adult, puppy to dog).</p>	<p>Plants, Animals, and Life Cycles: <i>Marvel at Metamorphosis p. 4, 5, 6, 7, 8, 9, 11, 12, 17, 18, (20-22), (24)</i> <i>Find Facts About Frogs p. 4, 9, 12, 17, (20-21), (24)</i></p>

Unit 2

Properties of Matter: What are some properties of solids, liquids, and gases?

<p>Observe and describe the three states of matter:</p> <ul style="list-style-type: none"> Liquids take the shape of the containers they are in. Air does not have a definite shape. Solids have a definite shape. 	<p>Matter: <i>Morph Matter p. 4, 6, 7, 8, 9, 11, 12, 13, 15, (17-18), (20)</i> <i>Mix and Match Water and Ice p. 4, 6, 9, 10, 13</i></p>
<p>Observe and describe how water evaporates when left in an open container (liquid water changes into gas as it moves into the air).</p>	<p>Matter: <i>Morph Matter p. 13</i> <i>Mix and Match Water and Ice p. 13</i></p>
<p>Observe that material(s) of which an object is made determines some specific properties of the object (sinking/floatation, solubility).</p>	<p>Matter: <i>Morph Matter p. 6, 7, 12, (17), (20)</i> <i>Mix and Match Water and Ice p. 6, 13, 16</i> Light: <i>See the Point of Light p. 6, 7, 11</i> Weather: <i>Talk About Temperature p. 13, 14</i> Plants, Animals, and Life Cycles: <i>Find Facts About Frogs p. 14</i></p>
<p>Predict, observe, and examine different substances to determine their ability to mix with water (e.g., oil, water; sugar, water; sand, water).</p>	<p>Matter: <i>Morph Matter p. 11</i> <i>Mix and Match Water and Ice p. 6</i> Light: <i>See the Point of Light p. 12</i> Weather: <i>Make a Windsock p. 12</i></p>
<p>Use tools such as hand lenses, rulers, thermometers, and balances to observe and measure the properties of materials.</p>	<p>Matter: <i>Mix and Match Water and Ice p. 12, 16</i> Light: <i>Measure Up Shadows p. 10, 12</i> Weather: <i>Make a Windsock p. 5, 12, 13</i> <i>Talk About Temperature p. 5, 6, 11, 13, 14</i> Plants, Animals, and Life Cycles: <i>Join the Cell-abration! p. 7, 12, 14, 15</i> <i>Marvel at Metamorphosis p. 15</i></p>
<p>Test objects to determine whether they sink or float:</p> <ul style="list-style-type: none"> Different materials (plastic, rubber, etc) Different shapes Boat design 	<p>Matter: <i>Morph Matter p. 6, 7</i> <i>Mix and Match Water and Ice p. 16</i> Plants, Animals, and Life Cycles: <i>Find Facts About Frogs p. 14</i></p>
<p>Observe, and describe the change of objects when placed in different environments.</p>	<p>Matter: <i>Morph Matter p. 6, 9, 11, 12, (17)</i></p>

<ul style="list-style-type: none"> • Hot and cold • Lighting and shadows • Color • Wet and dry 	<p><i>Mix and Match Water and Ice p. 6, 9, 10, 13, 16, (20-21), (23)</i></p> <p>Light: <i>Measure Up Shadows p. 6, 10, 12</i> <i>Bend Light! p. 11, (22)</i></p> <p>Weather: <i>Make a Windsock p. 5, 12, 13</i> <i>Talk About Temperature p. 11, 12, 13</i></p>
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Unit 3

Weather and Seasons: What are some of the changes we notice between seasons?

Observe and describe weather conditions that occur during each season.	<p>Matter: <i>Mix and Match Water and Ice p. 6, 9 10</i></p> <p>Light: <i>Bend Light! p. 9</i></p> <p>Weather: <i>Make a Windsock p. 3, 4, 5, 6, 8, 9, 11, 14, 16, (19), (21)</i></p>
Observe, measure, record, and compare weather data throughout the year (e.g., cloud cover, cloud types, wind speed and direction, precipitation) by using thermometers, anemometers, wind vanes, and rain gauges.	<p>Weather: <i>Make a Windsock p. 5, 8, 12, 14</i></p>
Compare temperatures in different locations (e.g., inside, outside, in the sun, in the shade).	<p>Weather: <i>Make a Windsock p. 5, 12</i> <i>Talk About Temperature p. (21)</i></p>
Compare day and night temperatures.	<i>Will be addressed in an upcoming module.</i>
Illustrate and describe how the sun appears to move during the day.	<p>Light: <i>Measure Up Shadows p. 8, 10, 12, (17-18)</i></p>
Illustrate and describe how the moon changes appearance over time (phases of the moon).	<i>Will be addressed in an upcoming module.</i>
Describe the 24 hour day/night cycle (time).	<i>Will be addressed in an upcoming module.</i>
Observe and record the changes in the sun's and other stars' position, and the moon's appearance relative to time of day and month, and note the pattern of this change.	<p>Light: <i>Measure Up Shadows p. 8, 10, 12, (17-18)</i></p>
Recognize that the sun's energy warms the air.	<p>Matter: <i>Morph Matter p. 9, 13</i> <i>Mix and Match Water and Ice p. 13, 16</i></p> <p>Weather: <i>Talk About Temperature p. 11, 12, 13, (21)</i></p>