

3rd Grade Science Objectives: First Quarter

<p>Goal 4: The learner will conduct investigations and use appropriate technologies to build an understanding for the form and function of the skeletal and muscle systems of the human body.</p>		
<p>Objectives</p>	<p>Vocabulary</p>	<p>“I can...” Statements</p>
<p>4.01 Identify the skeleton as a system of the human body.</p>	<ul style="list-style-type: none"> • system • skeleton <p>human body</p>	<ul style="list-style-type: none"> • I can explain why the skeleton is identified as a system in the human body. • I can give examples of systems in the body.
<p>4.02 Describe several functions of bones:</p> <ul style="list-style-type: none"> • Support • Protection • Locomotion • 	<ul style="list-style-type: none"> • function • bone • support • protection • locomotion 	<ul style="list-style-type: none"> • I can describe several functions of the bones. • I can give examples of bones that perform various functions.
<p>4.03 Describe the functions of different types of joints:</p> <ul style="list-style-type: none"> • Hinge • Ball and socket gliding 	<ul style="list-style-type: none"> • Joint • Hinge joint • Ball and socket joint • Gliding joint 	<ul style="list-style-type: none"> • I can describe how different types of joints allow movement. • I can compare the way different joints move to the movement of mechanical devices.
<p>4.04 Describe how different kinds of joints allow movement and compare this to the movement of mechanical devices.</p>	<ul style="list-style-type: none"> • Movement <p>Mechanical devices</p>	<ul style="list-style-type: none"> • I can describe how different kinds of joints allow movement. • I can compare the way different joints move to the movement of mechanical devices.
<p>4.05 Observe and describe how muscles cause the body to move.</p>	<ul style="list-style-type: none"> • muscles 	<ul style="list-style-type: none"> • I can demonstrate different movements my body can make. • I can describe relationships between muscles and body movement.
<p>Pre-Assessments: Anticipation Guides and KWL charts</p>		<p>Post-Assessments: Teacher-made test of content and vocabulary</p>

3rd Grade Science Objectives: Second Quarter

<p>Goal 3: The learner will make observations and use appropriate technology to build an understanding of the earth/moon/sun system</p>		
<p>Objectives</p>	<p>Vocabulary</p>	<p>“I can...” Statements</p>
<p>3.01 Observe that light travels in a straight line until it strikes an object and is reflected and/or absorbed</p>	<ul style="list-style-type: none"> • reflects • translucent • opaque • transparent 	<ul style="list-style-type: none"> • I can explain how light travels. • I can give examples when light is reflected or absorbed.
<p>3.02 Observe that objects in the sky have patterns of movement including:</p> <ul style="list-style-type: none"> • Sun • Moon • Stars 	<ul style="list-style-type: none"> • elliptical • galaxy • orbit • rotation • revolution 	<ul style="list-style-type: none"> • I can describe the difference between rotation and revolution. • I can explain why the sun and moon appear to be the same size.
<p>3.03 Using shadows follow and record the apparent movement of the sun in the sky during the day.</p>	<ul style="list-style-type: none"> • sundial • direction • shadow • solar 	<ul style="list-style-type: none"> • I can explain how our shadows change throughout the day. • I can show how to tell time with the sun. •
<p>3.04 Use appropriate tools to make observations of the moon</p>	<ul style="list-style-type: none"> • binoculars • telescope • magnitude • craters • terminator 	<ul style="list-style-type: none"> • I can describe the surface of the moon. • I can explain how craters are formed on the moon. •
<p>3.05 Observe and record the change in the apparent shape of the moon from day to day over several months and describe the pattern of changes</p>	<ul style="list-style-type: none"> • eclipse • waning • waxing • phase 	<ul style="list-style-type: none"> • I can describe what the moon looks like. • I can explain why it appears the moon changes shape. • I can explain the phases of the moon.
<p>3.06 Observe that patterns of stars in the sky stay the same although they appear to move across the sky nightly.</p>	<ul style="list-style-type: none"> • constellation • meteor • meteorite • planispheres 	<ul style="list-style-type: none"> • I can explain what causes stars to appear to move across the sky nightly. • I can explain how we can locate stars at any time.

3rd Grade Science Objectives: Third Quarter

Objectives	Vocabulary	“I can...” Statements
<p>2.01 Observe and describe the properties of soil:</p> <ul style="list-style-type: none"> • color • texture • capacity to hold water 	<ul style="list-style-type: none"> • soil • texture 	<ul style="list-style-type: none"> • I can describe soil by its properties of color, texture, and ability to hold water.
<p>2.02 Investigate that different soils absorb water at different rates.</p>	<ul style="list-style-type: none"> • absorption • sand • gravel 	<ul style="list-style-type: none"> • I can explain how different soils absorb water at different rates.
<p>2.03 Determine the ability of soil to support the growth of many plants, including those important to our food supply.</p>	<ul style="list-style-type: none"> • nutrients • silt • cultivation 	<ul style="list-style-type: none"> • I can explain how soil supports the growth of plants.
<p>2.04 Identify the basic components of soil:</p> <ul style="list-style-type: none"> • sand • clay • humus 	<ul style="list-style-type: none"> • sand • clay • humus 	<ul style="list-style-type: none"> • I can identify the different parts of soil.
<p>2.05 Determine how composting can be used to recycle discarded plant and animal material.</p>	<ul style="list-style-type: none"> • organic • inorganic • organisms • decompositions • vegetation 	<ul style="list-style-type: none"> • I can explain how composting can help recycle used plant and animal material.
<p>2.06 Determine the relationship between heat and decaying plant matter in a compost pile.</p>	<ul style="list-style-type: none"> • humidity • weather • temperature • compost 	<ul style="list-style-type: none"> • I can explain how heat effects decaying plants in compost pile.

3rd Grade Science Objectives: Fourth Quarter

Objectives	Vocabulary	“I can...” Statements
1.01 Observe and measure how the quantities and qualities of nutrients, light, and water in the environment affect plant growth.	<ul style="list-style-type: none"> • nutrients 	<ul style="list-style-type: none"> • I can describe how environmental factors affect plant growth.
1.02 Observe and describe how environmental conditions determine how well plants survive and grow in a particular environment.	<ul style="list-style-type: none"> • gravity • photosynthesis 	<ul style="list-style-type: none"> • I can observe and analyze conditions that effect plant growth.
1.03 Investigate and describe how plants pass through distinct stages in their life cycle including: <ul style="list-style-type: none"> • growth • survival • reproduction 	<ul style="list-style-type: none"> • embryo • cotyledon • roots • stems • leaves 	<ul style="list-style-type: none"> • I can observe and describe the plant life cycle.
1.04 Explain why the number of seeds a plant produces depends on variables such as light, water, nutrients, and pollination.		<ul style="list-style-type: none"> • I can describe how environmental factors affect how many seeds are produced.
1.05 Observe and discuss how bees pollinate flowers.	<ul style="list-style-type: none"> • pollination • flower 	<ul style="list-style-type: none"> • I can explain how pollination occurs.
1.06 Observe, describe, and record properties of germinating seeds.	<ul style="list-style-type: none"> • seed • seed coat 	<ul style="list-style-type: none"> • I can list and describe functions of parts of a seed.