

KINDERGARTEN – 2017-2018: Rotation A

1st & 2nd Quarters	PLANTS & ANIMALS (AMSTI Schools – No AMSTI Kit 1st Quarter) 3: Distinguish between living and nonliving things and verify what living things need to survive (e.g., animals needing food, water, and air; plants needing nutrients, water, sunlight, and air). 4: Gather evidence to support how plants and animals provide for their needs by altering their environment (e.g., tree roots breaking a sidewalk to provide space, red fox burrowing to create a den to raise young, humans growing gardens for food and building roads for transportation). 5: Construct a model of a natural habitat (e.g., terrarium, ant farm, diorama) conducive to meeting the needs of plants and animals native to Alabama. 6: Identify and plan possible solutions (e.g., reducing, reusing, recycling) to lessen the human impact on the local environment.*
3rd Quarter	WEATHER WALK 7: Observe and describe the effects of sunlight on Earth's surface (e.g., heat from the sun causing evaporation of water or increased temperature of soil, rocks, sand, and water). 8: Design and construct a device (e.g., hat, canopy, umbrella, tent) to reduce the effects of sunlight.* 9: Observe, record, and share findings of local weather patterns over a period of time (e.g., increase in daily temperature from morning to afternoon, typical rain and storm patterns from season to season). 10: Ask questions to obtain information about the purpose of weather forecasts in planning for, preparing for, and responding to severe weather.*
4th Quarter	PUSH & PULL 1: Investigate the resulting motion of objects when forces of different strengths and directions act upon them (e.g., object being pushed, object being pulled, two objects colliding). 2: Use observations and data from investigations to determine if a design solution (e.g., designing a ramp to increase the speed of an object in order to move a stationary object) solves the problem of using force to change the speed or direction of an object.*

KINDERGARTEN – 2017-2018: Rotation B

1st & 2nd Quarters	WEATHER WALK (AMSTI Schools – No AMSTI Kit 1st Quarter)
	<p>7: Observe and describe the effects of sunlight on Earth's surface (e.g., heat from the sun causing evaporation of water or increased temperature of soil, rocks, sand, and water).</p> <p>8: Design and construct a device (e.g., hat, canopy, umbrella, tent) to reduce the effects of sunlight.*</p> <p>9: Observe, record, and share findings of local weather patterns over a period of time (e.g., increase in daily temperature from morning to afternoon, typical rain and storm patterns from season to season).</p> <p>10: Ask questions to obtain information about the purpose of weather forecasts in planning for, preparing for, and responding to severe weather.*</p>
3rd Quarter	PLANTS & ANIMALS
	<p>3: Distinguish between living and nonliving things and verify what living things need to survive (e.g., animals needing food, water, and air; plants needing nutrients, water, sunlight, and air).</p> <p>4: Gather evidence to support how plants and animals provide for their needs by altering their environment (e.g., tree roots breaking a sidewalk to provide space, red fox burrowing to create a den to raise young, humans growing gardens for food and building roads for transportation).</p> <p>5: Construct a model of a natural habitat (e.g., terrarium, ant farm, diorama) conducive to meeting the needs of plants and animals native to Alabama.</p> <p>6: Identify and plan possible solutions (e.g., reducing, reusing, recycling) to lessen the human impact on the local environment.*</p>
4th Quarter	PUSH & PULL
	<p>1: Investigate the resulting motion of objects when forces of different strengths and directions act upon them (e.g., object being pushed, object being pulled, two objects colliding).</p> <p>2: Use observations and data from investigations to determine if a design solution (e.g., designing a ramp to increase the speed of an object in order to move a stationary object) solves the problem of using force to change the speed or direction of an object.*</p>