Utah Early Learning

Science — Ages 3–5

Ages 3 and 4

WEATHER Weather is the combination of sunlight, wind, snow, or rain, and temperature in a particular place at a particular time. Humans can plan and prepare for different weather conditions.

1. Obtain and communicate information about local, observable weather conditions while exploring and describing patterns found in different seasons. Emphasize the observation and recognition of data. Examples of data may include sunny, cloudy, windy, rainy, snowy, cold, or warm. 3-4 YR.1.1
2. Obtain and communicate information about human behavior patterns in different weather conditions. Emphasize the observation and recognition of data. Examples of data may include clothing, food, safety, and other preparations for expected weather. 3-4 YR.1.2

LIGHT Sunlight has an effect on surfaces. Objects can be seen when light is available to illuminate them. Light is required for plant growth.

1. Plan and carry out an investigation using the five senses to determine the effect of sunlight on different surfaces and materials. Examples could include determining if the effect is hot or cold or a light or dark surface. 3-4 YR.2.1
2. Carry out an investigation to show the effect of light in illuminating objects. Emphasize that objects can be seen when light is available to illuminate them. Examples could include observations about light when navigating a room with the lights off compared to the lights on. 3-4 YR.2.2
3. Plan and carry out an investigation to determine the effect of sunlight and water on plant growth. Examples could include growing plants in light or dark places. 3-4YR.2.3

LIVING THINGS Living Things (plants and animals, including humans) depend on their surroundings to get what they need, including food, water, and shelter, to survive. Behavior patterns between parents and offspring can help animals, including humans, to survive.

1. Obtain and communicate information about the effect of water and food on living things. Examples could include plants depend on water to live, and animals depend on water and food to live. 3-4 YR.3.1
2. Obtain and communicate information about the pattern between living things and the places where they live. Emphasize that living things need water, air, and resources, and they live in places that have the things they need to survive. 3-4 YR.3.2

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3 Obtain and communicate information about the behavior patterns that help humans and animals survive when they are young. Examples of behavior patterns could include parents responding to needs, providing shelter and sustenance, and ensuring the security of their offspring. 3-4 YR.3.3

MATTER AND MOTION All things are made of matter. Various kinds of matter, such as wood, metal, and water, have different properties that can be observed, described, and classified. Pushing or pulling on an object can change the speed or direction of an object in motion.

1 Plan and carry out an investigation to classify different kinds of materials based on patterns in their observable properties. Examples could include sorting materials based on similar properties such as color, hardness, texture, or whether the materials are solids or liquids. 3-4 YR.4.1

2 Plan and carry out an investigation to determine the cause and effect of the speed or direction of an object when a push or pull occurs. Examples could include having a marble or other object move a certain distance, follow a particular path, or knock down other objects. 3-4 YR.4.2