

## Target Skill



I can trace my shadows in the morning and afternoon, and compare the tracings.

5th Grade - Earth and Sun - Investigation 1

## Target Skill



I can use the information from recording my shadow to determine the position of the Sun as it appears to move throughout the day.

5th Grade - Earth and Sun - Investigation 1

## Target Skill



I can create a sun tracker and use a compass or orient it to north-south, and make hourly recordings of the position of the shadow cast by the tee.

5th Grade - Earth and Sun - Investigation 1

## Target Skill



I can discover that rotation of earth results in day and night, and in the process, figure out which direction Earth rotates on its axis.

5th Grade - Earth and Sun - Investigation 1

## Target Skill



I can create a Moon calendar, in which I can record the Moon's appearance every day for a month.

5th Grade - Earth and Sun - Investigation 2

## Target Skill



I can build a model of the Earth/Moon/Sun system.

5th Grade - Earth and Sun - Investigation 2

## Target Skill



I can analyze the Moon observations to discover the sequence of changes.

5th Grade - Earth and Sun - Investigation 2

## Target Skill



I can remember the four specific phases and the intermediate phases of the moon.

5th Grade - Earth and Sun - Investigation 2

## Target Skill



I can use a light source and sphere to simulate an Earth-Moon-Sun system and explore the cause of Moon phases.

5th Grade - Earth and Sun - Investigation 2

## Target Skill



I can observe that gravity is a force that changes planets direction of travel and produces circular orbits.

5th Grade - Earth and Sun - Investigation 2

## Target Skill



I can identify images in patterns of stars as constellations.

5th Grade - Earth and Sun - Investigation 2

## Target Skill



I can simulate Earth's rotation and observe the appearance of stars rising in the east, traveling across the sky, and setting in the west.

5th Grade - Earth and Sun - Investigation 2

# Target Skill



I can observe the relationships and orientations of Earth, the Sun, and the Milky Way to explain why different stars are visible in different seasons.

5th Grade - Earth and Sun - Investigation 2

# Target Skill



I can explore properties of air by working with syringes and tubes to discover that air takes up space and is compressible.

5th Grade - Earth and Sun - Investigation 3

## Target Skill



I can discuss, with evidence, that air is matter and has mass.

5th Grade - Earth and Sun - Investigation 3

## Target Skill



I can study Earth's atmosphere, using diagrams, photos from space, and readings.

5th Grade - Earth and Sun - Investigation 3



## Target Skill



I can think about the atmosphere as a mixture of gases with properties that change with distance around Earth's surface.

5th Grade - Earth and Sun - Investigation 3

## Target Skill



I can review local weather reports and determine the variables that combine to produce the weather.

5th Grade - Earth and Sun - Investigation 3

## Target Skill



I can experiment with weather instruments - a thermometer, barometer, hygrometer, compass, and wind vane.

5th Grade - Earth and Sun - Investigation 3

## Target Skill



I can use a digital weather station with a receiver outdoors to gather weather data, and develop a plan for acquiring daily data and sharing them with the class.

5th Grade - Earth and Sun - Investigation 3

# Target Skill



I can observe two examples of heat transfer by conduction; from hot water to a container of cold water, and from one end of a metal strip to the other.

5th Grade - Earth and Sun - Investigation 4

# Target Skill



I can discuss the mechanisms by which energy transfers to and from the air, radiation and reradiating from Earth's surface, and conduction between Earth's surface and air particles.

5th Grade - Earth and Sun - Investigation 4

## Target Skill



I can use water, at different temperatures to discover the relationship between temperatures and density.

5th Grade - Earth and Sun - Investigation 4

## Target Skill



I can use coloring in water to observe a convection current, the same process resulting in wind on Earth.

5th Grade - Earth and Sun - Investigation 4

## Target Skill



I can set up cups of ice water and room-temperature water and observe condensation on the ice-water cups.

5th Grade - Earth and Sun - Investigation 5

## Target Skill



I can learn that water vapor in the air condenses into liquid dew (or frost) on cold surfaces.

5th Grade - Earth and Sun - Investigation 5

## Target Skill



I can observe that water evaporates from cups that are exposed to heat.

5th Grade - Earth and Sun - Investigation 5

## Target Skill



I can observe the relative amount of fresh water and salt water, and their distribution on Earth.

5th Grade - Earth and Sun - Investigation 5

## Target Skill



I can simulate the travel of a water drop through the water cycle.

5th Grade - Earth and Sun - Investigation 5

## Target Skill



I am introduced to climate and can suggest schemes for describing world climate regions, based on my understanding of weather variables.

5th Grade - Earth and Sun - Investigation 5

# Target Skill



I can develop an awareness about global climate change.

5th Grade - Earth and Sun - Investigation 5

# Target Skill



5th Grade - Earth and Sun - Investigation





