

## Activity Index

### Kindergarten

#### Big Idea 1: The Practice of Science

**SC.K.N.1.1** - Collaborate with a partner to collect information.

- Human Gnomon
- UV Bead Magic
- Sun and Shade
- Solar Energy and Color
- What's Cooking 2
- Solar Powered System

**SC.K.N.1.2** - Make observations of the natural world and know that they are descriptors collected using the five senses.

- K-W-L
- Sun and Me Posters 1
- Human Gnomon
- Wind Watching
- Rainbows, Rainbows, Everywhere
- UV Bead Magic
- Sun and Shade
- Solar Energy and Color
- Rain Machine (Solar Still)
- What's Cooking 2

**SC.K.N.1.3** - Keep records as appropriate -- such as pictorial records -- of investigations conducted.

- Human Gnomon
- Rainbows, Rainbows, Everywhere
- UV Bead Magic
- Sun and Shade

**SC.K.N.1.4** - Observe and create a visual representation of an object which includes its major features.

- Sun and Me Posters 1
- Web of Life
- Human Gnomon
- Wind Watching
- Rainbows, Rainbows, Everywhere
- What's Cooking
- Solar Cell Simulation
- Sun and Me Posters 2

**SC.K.N.1.5** - Recognize that learning can come from careful observation.

- Human Gnomon
- Wind Watching
- Rainbows, Rainbows, Everywhere
- Sun and Shade
- Solar Energy and Color
- What's Cooking 2
- Solar Powered System

**Big Idea 5: Earth in Space and Time**

**SC.K.E.5.2** - Recognize the repeating pattern of day and night.

- K-W-L
- Sun and Me Posters 1
- Human Gnomon
- Sun and Me Posters 2

**SC.K.E.5.3** - Recognize that the Sun can only be seen in the daytime.

- K-W-L
- Sun and Me Posters 1
- Human Gnomon
- Sun and Me Posters 2

**Big Idea 8: Properties of Matter**

**SC.K.P.8.1** - Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight and texture.

- Sun and Shade
- Solar Energy and Color

**Big Idea 12: Motion of Objects**

**SC.K.P.12.1** - Investigate that things move in different ways, such as fast, slow, etc.

- Wind Watching

**First Grade**

**Big Idea 1: The Practice of Science**

**SC.1.N.1.1** - Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.

- Sun and Me Posters 1
- Web of Life
- Human Gnomon
- Wind Watching
- Rainbows, Rainbows, Everywhere
- UV Bead Magic
- Sun and Shade
- Solar Energy and Color
- Rain Machine (Solar Still)
- Solar Powered System

**SC.1.N.1.2** - Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.

- Human Gnomon
- Wind Watching
- Rainbows, Rainbows, Everywhere
- What's Cooking 2

**SC.1.N.1.3** - Keep records as appropriate - such as pictorial and written records - of investigations conducted.

- K-W-L
- Human Gnomon
- Rainbows, Rainbows, Everywhere
- UV Bead Magic
- Sun and Shade

### **Big Idea 5: Earth in Space and Time**

**SC.1.E.5.4** - Identify the beneficial and harmful properties of the Sun.

- K-W-L
- Sun and Me Posters 1
- UV Bead Magic
- Sun and Shade
- Solar Energy and Color
- Rain Machine (Solar Still)
- What's Cooking
- What's Cooking 2
- Solar Cell Simulation
- Solar Powered System
- Sun and Me Posters 2

### **Big Idea 6: Earth Structures**

**SC.1.E.6.2** - Describe the need for water.

- Web of Life
- Rain Machine (Solar Still)

### **Big Idea 8: Properties of Matter**

**SC.1.P.8.1** - Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight, texture and whether objects sink or float.

- Sun and Shade
- Solar Energy and Color

### **Big Idea 12: Motion of Objects**

**SC.1.P.12.1** - Demonstrate and describe the various ways that objects can move, such as in a straight line, zigzag, back-and-forth, round-and-round, fast, slow.

- Wind Watching

### **Big Idea 14: Organization and Development of Living Organisms**

**SC.1.L.14.1** - Make observations of living things and their environment using the five senses.

- Wind Watching

### **Big Idea 17: Interdependence**

**SC.1.L.17.1** - Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.

- Web of Life

## Second Grade

### Big Idea 1: The Practice of Science

**SC.2.N.1.1** - Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.

- Sun and Me Posters 1
- Human Gnomon
- Wind Watching
- Rainbows, Rainbows, Everywhere
- UV Bead Magic
- Sun and Shade
- Solar Energy and Color
- Rain Machine (Solar Still)
- Solar Powered System

**SC.2.N.1.2** - Compare the observations made by different groups using the same tools.

- Sun and Me Posters 1
- Human Gnomon
- Sun and Shade
- What's Cooking 2

**SC.2.N.1.4** - Explain how particular scientific investigations should yield similar conclusions when repeated.

- Sun and Shade

**SC.2.N.1.5** - Distinguish between empirical observations (what you see, hear, feel, smell or taste) and ideas or inferences (what you think).

- What's Cooking 2

### Big Idea 7: Earth Systems and Patterns

**SC2.E.7.1** - Compare and describe changing patterns in nature that repeat themselves, such as weather conditions including temperature and precipitation, day to day and season to season.

- K-W-L
- Sun and Me Posters 1
- Human Gnomon

**SC.2.E.7.2** - Investigate by observing and measuring, that the Sun's energy directly and indirectly warms the water, land, and air.

- K-W-L
- Sun and Me Posters 1
- Sun and Shade
- Solar Energy and Color
- What's Cooking
- What's Cooking 2
- Sun and Me Posters 2

**SC.2.E.7.3** - Investigate, observe and describe how water left in an open container disappears (evaporates), but water in a closed container does not disappear (evaporate).

- Sun and Me Posters 1
- Rain Machine (Solar Still)

- Sun and Me Posters 2

**SC.2.E.7.4** - Investigate that air is all around us and that moving air is wind.

- Wind Watching

**SC.2.E.7.5** - State the importance of preparing for severe weather, lightning, and other weather related events.

- Wind Watching

### **Big Idea 8: Properties of Matter**

**SC.2.P.8.1** - Observe and measure objects in terms of their properties, including size, shape, color, temperature, weight, texture, sinking or floating in water, and attraction or repulsion of magnets.

- Sun and Shade
- Solar Energy and Color

### **Big Idea 10: The Forms of Energy**

**SC.2.P.10.1** - Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.

- What's Cooking
- What's Cooking 2
- Solar Cell Simulation
- Solar Powered System

### **Big Idea 17: Interdependence**

**SC.2.L.17.1** - Compare and contrast the basic needs that all living things, including humans, have for survival.

- Web of Life