

1st Grade Science

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Unit 1: Pumpkins and Introduction to the Garden

1. Introduction to pumpkins, "The Pumpkin Circle"

Outside/In – Harvest time pumpkins

2. Introduction to the Garden – "The Tiny Seed"

Outside/In – Worms

Outside/In – Woodlands in a bag

Outside/In – Insect in a box

Unit 2: Solids, Liquids, and Gases

1. Introduction to Solids, Liquids, and Gases

- a. Solids, Liquids, and Gases Student Sheet

- b. Solids, Liquids, and Gases Teacher Copy (make a class poster)

- 2) Gases

- a. Gas Observations Student Record Sheet

- 3) Mystery Liquids

- a. Mystery Liquids Student Record Sheet

- 4) Measuring Liquids – Using Graduated Cylinders and Droppers

- a. Measuring Liquids Student Record Sheet;

- 5) Mystery Solids

- a. Mystery Solids Student Record Sheet

- 6) Measuring Solids – Using Balances

- a. Measuring Solids Student Record Sheet

- 7) Sparkle Jars (**each students needs a small glass jar from home**)

- a. Solids, Liquids, and Gases Student Chart

- b. Solids, Liquids, and Gases Teacher Copy

- 8) Sink or Float?

- a. Sink or Float Student Record Sheet

- 9) Water Changes – Solid, Liquid, and Gas
 - a. Water Changes Student Record Sheet
- 10) Water Container Design Challenge
 - a. Water Container Design Student Record Sheet

Unit 3: Earth Science, Rocks and Fossils

1. Introduction to Rocks
2. What are Volcanoes?
3. How do plate tectonics work?
4. What are fossils? Let's Dig!
 - a. Fossil Information Sheets
5. Making Plant Fossils
6. Measuring Fossils
 - a. Size Measurements Student Record Sheet
7. Making Edible fossils
 - b. Edible Fossils Student Record Sheet

Unit 4: Air, Wind, and Sun

1. Moving Air = Wind
 - a. Paper Spiral Template
2. Wind and Weather
3. Air and Wind – Wind Direction
4. Paper Airplanes – two classes (one to make airplanes, one to test airplanes)
 - a. Paper Airplane Student Record Sheet
 - b. How to make paper airplanes and tips for flying paper airplanes

Unit 5: Simple Machines

1. Introduction to 5 Simple Machines
2. Design your own Simple Machine
 - a. Wind Power student handout
 - b. Super-Crank student handout

- c. Pinwheel student handout
- 3. Alexander Graham Bell and the Telephone

Unit 6: Habitats – The Rainforest

Outside/In – Layers of the Rainforest

- 2. How Adaptable are you? – animal adaptations
 - a. Canopy critters student handout
- 3. Why are SWANS in the rain forest? – plant adaptations (epiphyte braches)
 - a. Butterfly student handout
 - b. Bromeliads student handout
 - c. Tissue Paper Flower student handout
 - d. Fern student handout

Outside/In – Planting Pumpkins

Materials List