

# **SCIENCE OUTCOMES**

## **SECOND GRADE**

### **Learner Outcomes. Students will:**

- 1. Develop an understanding of air and weather.**
  - A. Experience air as a material that takes up space and can be compressed into a smaller space.
  - B. Observe the force of air pressure pushing on objects and materials.
  - C. Observe and describe changes that occur in weather over time.
  - D. Become familiar with instruments used by meteorologists to monitor air and weather conditions.
  - E. Compare monthly and seasonal weather conditions using bar graphs.
  - F. Observe the location of the sun and the moon in the sky over a day and the changes in the appearance of the moon over a month.
  - G. Organize and communicate observations through drawings and writing.
  - H. Acquire vocabulary associated with properties of air and weather conditions.
  
- 2. Investigate the lifecycle of insects.**
  - A. Develop a curiosity and interest in insects and respect for them as living things.
  - B. Experience some of the great diversity of forms in the animal kingdom.
  - C. Become familiar with some of the life sequences that different types of insects exhibit (simple and complete metamorphosis).
  - D. Observe the similarities and differences in the larvae, pupae, and adults of insects that go through complete metamorphosis.
  - E. Observe the behaviors of insects at different stages of their life cycle.
  - F. Provide for the needs of insects (air, water, food, and space).
  - G. Acquire the vocabulary associated with insect life.
  
- 3. Investigate earth materials.**
  - A. Develop a curiosity and interest in the physical world around them.
  - B. Observe, describe, and sort earth materials based on properties.
  - C. Separate earth materials by size, using different techniques.
  - D. Observe the similarities and differences in the materials in a river rock mixture: silt, sand, gravel, and small and large pebbles.
  - E. Explore places where earth materials are found and ways that earth materials are used.
  - F. Compare the ingredients in different soils.
  - G. Organize and communicate observations through drawing and writing.
  - H. Acquire the vocabulary associated with earth materials.

