

# ENERGY IN OUR LIVES

*Students will be energized as they investigate various forms of energy and the paramount importance each plays in the survival of all forms of life.*

## **SUMMARY:**

In this stimulating, hands-on workshop students will learn that solar energy is the principal source of energy and will be introduced to the wacky world of potential and kinetic energy. See the path energy takes from the sun shining down to a fun bowling party. Everyone will be blown away when we reveal the wonders of wind energy.

## **EDUCATIONAL VALUE:**

This workshop helps students demonstrate an understanding that the sun, as the earth's principal source of energy, warms the air, land, and water; is a source of light for the earth; and makes it possible to grow food. They will also see that energy is what makes the things they do or see happen. We will identify food as a source of energy for themselves and other living things and look at everyday uses of various sources of energy (e.g., food to help animals, including humans, survive and move; natural gas to heat homes and schools; petroleum to power cars and buses; electricity to power lights; batteries to power toys).

## **TAKE-HOME MESSAGE:**

- 1 Energy is the ability to work or play.
- 2 Energy can be stored (potential) or released (kinetic)
- 3 We make choices the conserve or consume energy

## **TAKE-HOME PRODUCT:**

Pin Wheel

## **NORTH CAROLINA ESSENTIAL STANDARDS:**

- 1.L.2 Summarize the needs of living organisms for energy and growth.
- 3.P.3 Recognize how energy can be transferred from one object to another.
- 4.P.3 Recognize that energy takes various forms that may be grouped based on their interaction with matter.

