

Wonders of the Wind: Elementary Level

Objectives: As a result of this lesson, students will understand what wind is and how it does work. Students will be able to measure the speed and direction of the wind, and conduct an experiment to test different blades on a wind turbine.

Elementary students learn about wind through reading and activities that focus on observation and inquiry. Students will learn to measure wind speed and direction, they will investigate how wind does work, including the ability to lift materials and generate electricity. The kit comes with a Teacher Guide, a class set of Student Guides, and the materials necessary to conduct the activities, including one KidWind Weightlifter Turbine and one KidWind Basic Turbine. This lesson is approximately eleven 45-minute class periods.

This kit includes:

Anemometer
 Wind gauge
 Wind vane
 Genecon and Book
 Box of snow cone cups
 Masking tape
 Compass
 Large straws
 Small straws
 Straight pins
 Small binder clips
 Pencils
 Hub
 Multimeter
 Alligator clips
 ¼" Dowels
 18" Long balsa sheets
 16" Long chloroplast sheets
 PVC 1' 90 degree Joints
 PVC 1' T-Joints
 PVC 6" Length
 PVC 24" Length
 PVC 2" Length
 PVC 1" Coupler
 Small plastic bucket

4' string
 Wooden spools
 Weightlifter nacelle
 Nuts
 Protractor
 Wind turbine motor
 Ultra Capacitor
 Teacher guide
 Student Guides

Not in this kit:

Foam cups
 Hole punch
 Rulers
 Scissors
 Glue
 Permanent Markers
 Tape

Additional Equipment Needed:

Fan



*See video with assembly instructions and tips at <https://www.youtube.com/watch?v=mjsGrWioLlk>

*To replenish any materials used, lost or broken during classroom use, check craft, hardware, or hobby stores. For more information or to purchase this kit, visit NEED.org