

## The Wind is Energy: Primary Level

**Objectives:** As a result of this lesson, students will have a basic understanding of wind as an energy source. Students will be able to measure speed and direction of wind.

Primary students begin to develop an understanding of how wind is formed and used as an energy source. Students will learn to measure wind speed and direction, and investigate how wind can do work. The kit comes with a Teacher Guide, a class set of science notebooks designed specifically for this unit, and the materials necessary to conduct the activities, including two KidWind Weightlifter Turbines.



**This kit includes:**

- Anemometer
- Wind gauge
- Wind vane
- Box of Pinwheels
- Box of snow cone cups
- Compass
- Large straws
- Small straws
- Straight pins
- Small binder clips
- Pencils
- Masking tape
- ¼" Dowels
- Hubs
- 18" Long balsa sheets
- 16" Long chloroplast sheets
- PVC 1" 90 degree fitting
- PVC 1" T-fitting
- 24" PVC Pipe
- 6" PVC pieces
- Small plastic buckets



Weightlifter Turbine Basic Turbine Geared Turbine

- 4' string
- Wooden spools
- Weightlifter nacelles
- Nuts
- Teacher guide
- Student Guides

**Not in this kit:**

- Foam cups
- Hole punch
- Rulers
- Scissors
- Glue
- Hula Hoop
- Jump Rope
- Lamp

**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](http://www.NEED.org)