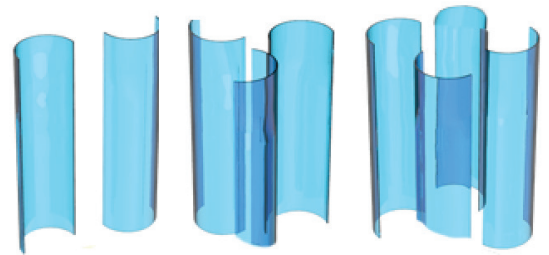
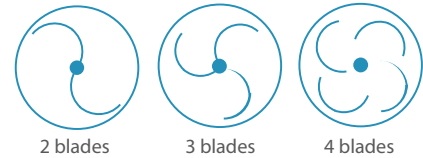
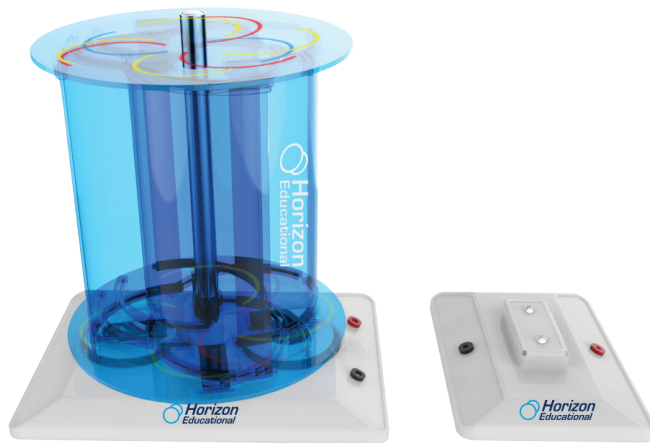


# Experiment with the best Savonius VAWT science kit in the market

RESK 01



## Vertical Axis Wind Turbine Science Kit

Horizon's Vertical Axis Wind Turbine Science Kit is the most comprehensive wind energy educational product on the market today. It allows students to explore simple wind turbine design by providing 3 different blade position combinations. Students can also design their own blades.

## FEATURES

- ✓ 3 different adjustable blade angles
- ✓ More than 25 hours of activities for middle/high school in physics and earth/environmental science

## INCLUDED COMPONENTS

- ✓ 3 adjustable positions for the blades
- ✓ Rotor base and mounting magnets
- ✓ Axis assembly with removable coils
- ✓ LED for output power demonstration
- ✓ DIY (Do it yourself) blade set

## CURRICULUM

- ✓ Earth/Environmental Science:
  - Human Impact on Global Climate
  - Alternative Energy Source
  - Coriolis Effect
  - Prevailing Wind Directions
- ✓ Physics:
  - Rotational Kinetics/Dynamics
  - Coriolis Effect
  - Friction and Mechanical Efficiency
  - Ohm's Law
  - Magnetic fields

## SPECIFICATIONS

Component	Parameter
1 Base Body	153mm x 107mm
1 Wind plate for blades	Ø 120mm
1 Upper Plate	120 mm
4 Blades	50mm x 120mm
2 Coil windings	Ø 40mm
4 Magnets	25mm x 40mm x 10mm
1 Aluminum Stator	
1 Aluminum Rotor	
2 Rubber Rings	
2 Bearings	Ø 5mm
1 LED base	107mm x 85mm
Voltage	2V-7V
Current	0.09-0.45 mA
Product weight	
Product assembled	600g
Packaging	15.50cm x 12cm x 17cm
Blade Plate Lock	208mm x 148mm x 100mm

## OPTIONAL ADD-ONS

- ✓ Horizon Renewable Energy Monitor
- ✓ Horizontal Axis Wind Turbine
- ✓ Reversible Hydrogen Fuel Cell