



# EPPro8 Challenge

Engineer Problem Solve Innovate

## Wind Powered Crane – Teacher's Notes

### Summary

Teams will build a wind turbine and experiment with increasing its power output by adjusting the number, quantity, shape and angle of the blades on the wind turbine.

### Principles

Aeronautics, Experimental Method, Structures, Electronics.

### Extra Equipment

3D Printed wind turbine hub. [Click here for the stl file.](#)

A4 Card (210 gsm, 100 sheets Warehouse Stationery, \$33).

Free standing fan.

100g weight, 2 x 200g weight, 2kg weight.

### What to Aim For

See the “Getting the Most from your Equipment” document for guidelines on what to aim for from these challenges.

There is a separate challenge “Gearbox” that teams should complete before undertaking this challenge.

### Our Solution

