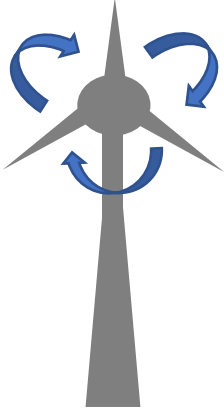


# Wind Power

All answers to calculations should be to 2 significant figures.



1. Fill in the following word blanks

As the wind blows, it causes the \_\_\_\_\_ of the \_\_\_\_\_ to turn, this will cause a \_\_\_\_\_ to \_\_\_\_\_ inside, producing electricity.

2. Fill in the table below to suggest advantages and disadvantages of using wind as an energy resource.

Advantage of using wind as an energy resource	Disadvantage of using wind as an energy resource

3. Suggest good locations for wind turbines and suggest poor locations for wind turbines

Good locations

.....  
.....

Poor locations

.....  
.....

4. Why do local people object to wind turbines being built in their local area ?

.....  
.....

5. The eco-wind generation company are investigating which wind speed is best for generating the most electricity from wind turbines. They measure both the wind speed received by the turbine and the power generated by the turbine.

Wind turbine	Wind Speed (m/s)	Power output (kW)
A	3	10
B	6	80
C	12	640

a. Describe the relationship between wind speed and power output

.....  
.....

b. Explain the relationship between wind speed and power output.

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