



## Turbines and Gears

1. (a) anti-clockwise

1. (b) anti-clockwise

The answers to questions 2, 3 and 4 will be different for each group and will depend on how fast the gears are rotated.

5. Gear D should be able to complete the most rotations per minute, but this may depend on the technique of the pupils.



## Turbines and Gears

2.

Gear	How many teeth does the gear have?	How many times was Gear D rotated?
C	8	2
B	12	3
A	16	4

3. Dividing the number of teeth on the **bigger** gear by the number of teeth on the **smaller** gear tells you how many times it must be rotated.

4. 5