

Name: \_\_\_\_\_ Date: \_\_\_\_\_

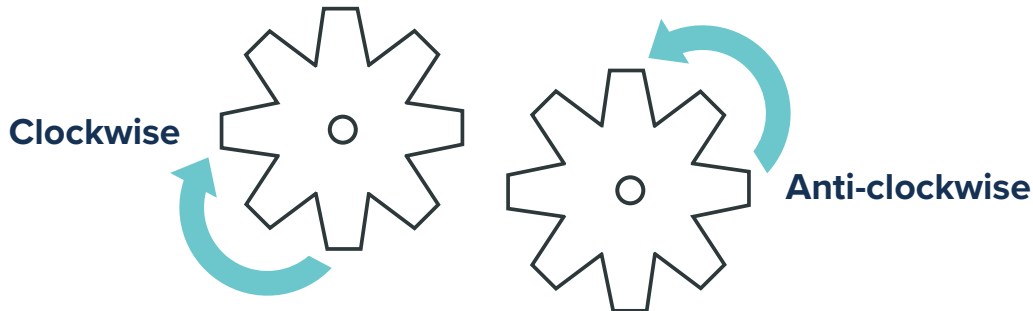
# Electricity

## Worksheet 1a

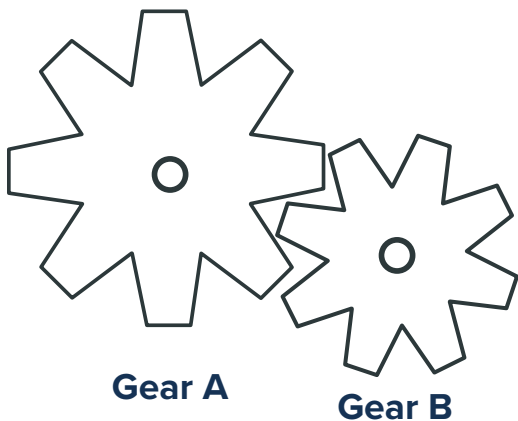


### Turbines & Gears

1. (a) Connect any 2 gears. As you rotate one of them clockwise, which direction does the other rotate?



1. (b) Add a third gear, and watch the direction that it rotates. If there were 75 gears in a line, with the first gear rotating anti-clockwise, in which direction would the last gear rotate?





We can use 'rotations per minute' to measure the speed of a rotating object' above.

2. How many rotations did Gear A complete in 1 minute?

How many rotations did Gear B complete in 1 minute?

3. How many rotations did Gear A complete in 1 minute?

How many rotations did Gear C complete in 1 minute?

4. How many rotations did Gear A complete in 1 minute?

How many rotations did Gear D complete in 1 minute?

5. When connected to Gear A, which gear made the most rotations per minute?