



Worksheet 5 answers

Q1: A pile of books has a mass of 25kg, what's its weight. Show your work

$$\text{Weight} = \text{mass} \times 10$$

$$= 25 \times 10$$

$$= 250 \text{ N}$$

Q2: Ming rides her bicycle to school



A: What force does she exert on the bicycle?

Pushing the pedals of the bicycle

B: What effect does the force have on the bicycle?

- Make the bicycle move
- Increase the speed of the bicycle
- Change the direction of the bicycle

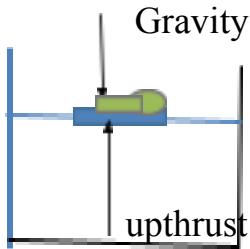
Q3: Farah places a metal key in a container of water. The key sinks. Explain why the key sinks.

Because the mass of the key is greater than the mass of the water displaced by the upthrust force, so it sinks

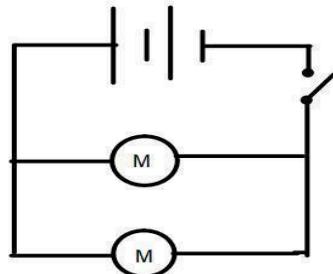
b Suggest what Farah could do to make the key float.

Put the keys on a flat surface

c Draw a force diagram to show the key floating. Label the forces.



Q4 . In the box below, draw a parallel circuit with a 3V battery, two motors and an open switch.



Q5. Complete the table to show what happens in the circuit.

Switch Y	Switch Z	Bulb
Open	Open	Off
Closed	open	On
Open	Closed	On
Closed	Closed	On

