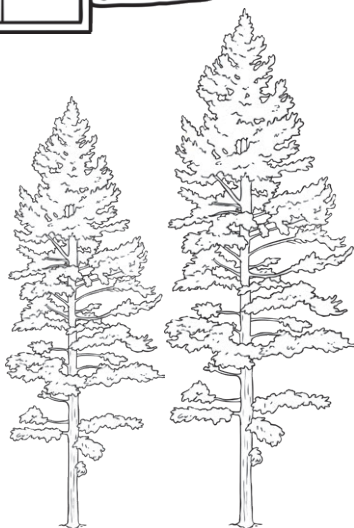
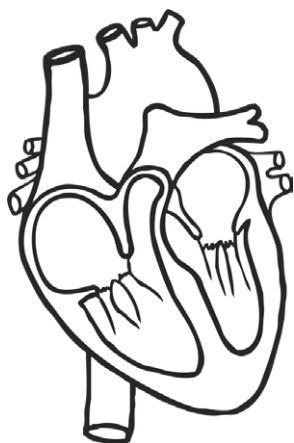


# Year 6 Science Revision Booklet Answers



# Living Things and Their Habitats

1. Think of **four** animals for each classification in the table below:

Wings	No Wings
<b>Accept any animals that have wings</b>	<b>Accept any animals that do not have wings</b>

2. Give **two** other ways in which animals can be classified:

**Accept any two groups, e.g.**

- **lays eggs/gives birth**
- **insect/not insect**
- **classes based on number of legs**
- **classes based on taxonomy categories**

3. Sort these animals into the two groups in the table below.

Vertebrates	Invertebrates
<b>frog</b> <b>dolphin</b> <b>lizard</b>	<b>starfish</b> <b>lobster</b> <b>spider</b> <b>jellyfish</b>

4. Draw lines from each plant to the group that it belongs:

Plum tree



Sunflower



Fern



Rose



Moss



Conifer



Flowering Plants

Non-Flowering Plants

5. Name **two** ways in which microorganisms can be helpful.

**Accept any two of the following:**

- **making cheese**
- **making wine**
- **making bread**
- **decomposing matter**
- **making yogurt**
- **antibiotics**

6. Name **two** ways in which microorganisms are not helpful.

**Accept any two of the following:**

- **food poisoning**
- **athlete's foot**
- **plaque**
- **flu**
- **mould**
- **chicken pox**

# Animals, Including Humans

1. What is the main function of the heart?

**To pump blood around the body.**

2. Circle the parts of the body that make up the circulatory system.

lungs

veins

heart

kidneys

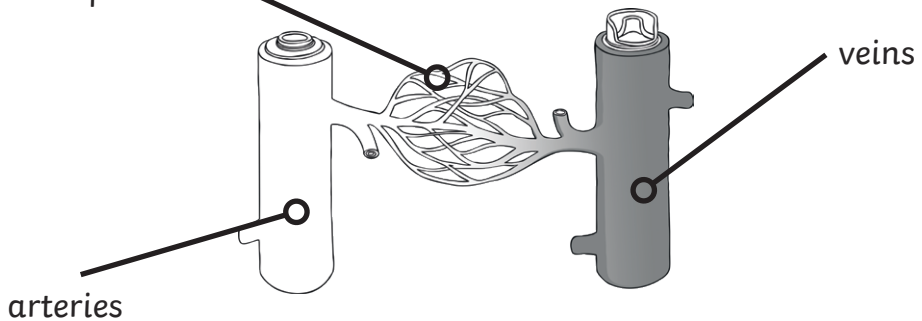
arteries

trachea

blood

3. Look at this diagram and complete the sentences below by choosing the correct word in brackets:

capillaries



Veins carry **de-oxygenated** blood toward the heart.

Arteries carry **oxygenated** blood away from the heart.

Capillaries are the **smallest** blood vessels in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.

4. Which of the following is NOT a benefit of exercise? Put a circle around your answer.

Exercise  
strengthens muscles.

Exercise  
strengthens bones.

Exercise increases the  
amount of oxygen  
around the body.

Exercise releases brain  
chemicals which  
help you feel calm  
and relaxed.

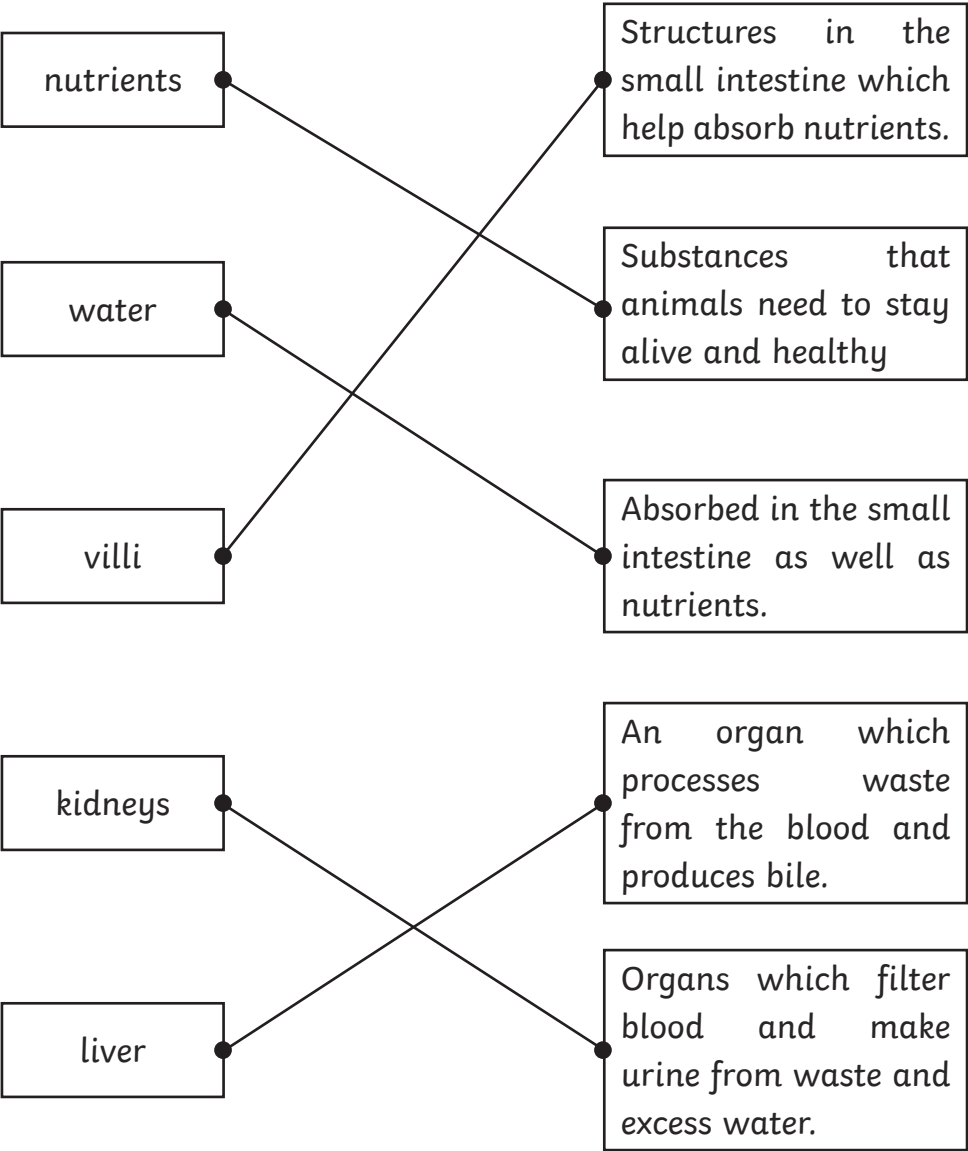
Exercise makes you  
grow taller.



5. Name **two** things that have a negative effect on the body.  
**Accept two of the following:**

- **drugs**
- **alcohol**
- **smoking**

6. Draw lines to match the words with their definitions.





# Evolution and Inheritance

1. Fill in the missing words in the passage below using the word bank to help.

**Fossils** are the preserved remains of ancient animals and plants. Fossils let **scientists** know how plants and animals used to look **millions** of years ago. This is proof that living things have **evolved** over time.

2. True or false?

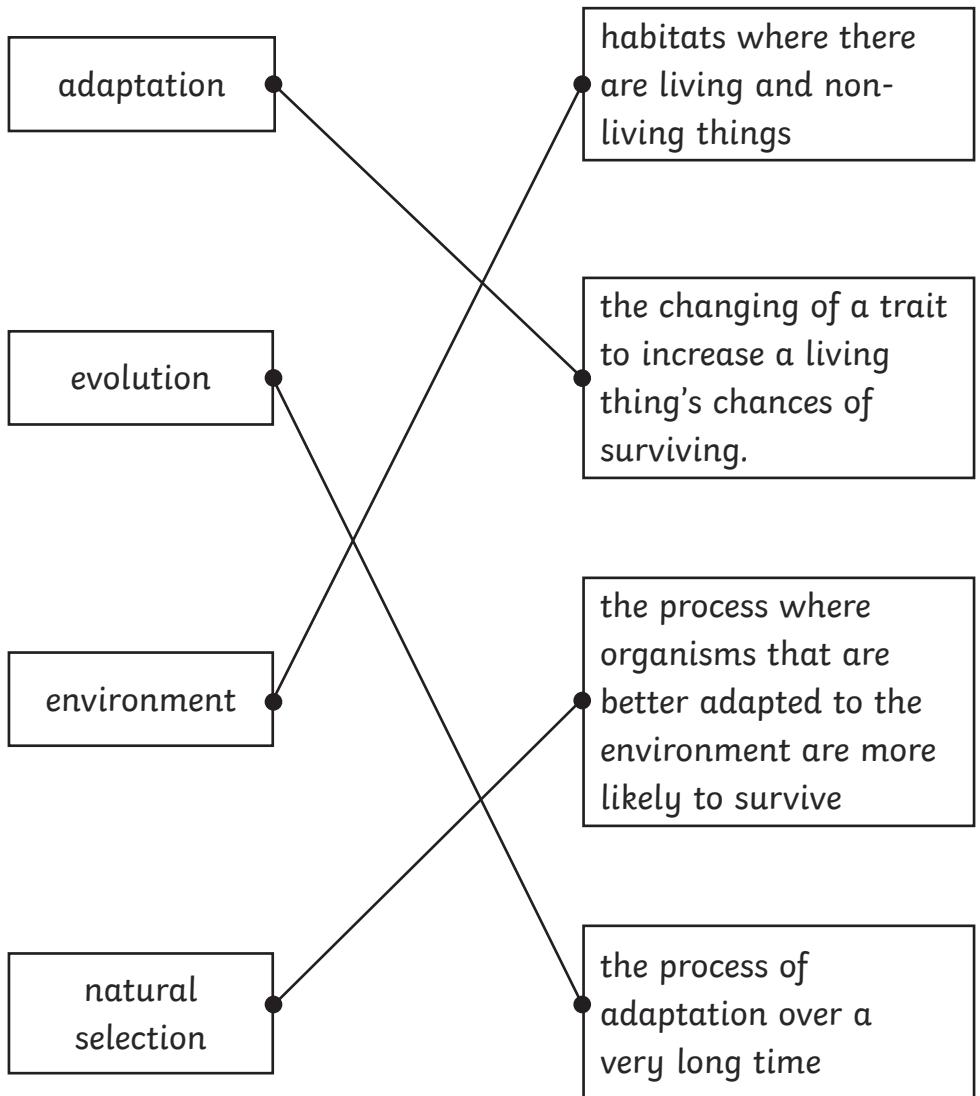
Inheritance refers to the physical features that are passed from parents to children.	<b>True</b>
Inheritance only occurs in humans.	<b>False</b>
Siblings cannot inherit the same physical features.	<b>False</b>
Eye colour, face shape and hair colour can all be inherited traits.	<b>True</b>

3. Choose **two** children that you think could be siblings and explain what inherited features they share.



**Accept any answer that explains any shared inherited features, such as: I think these two boys are siblings because they both have inherited the same green eyes and their hair colour is also very similar.**

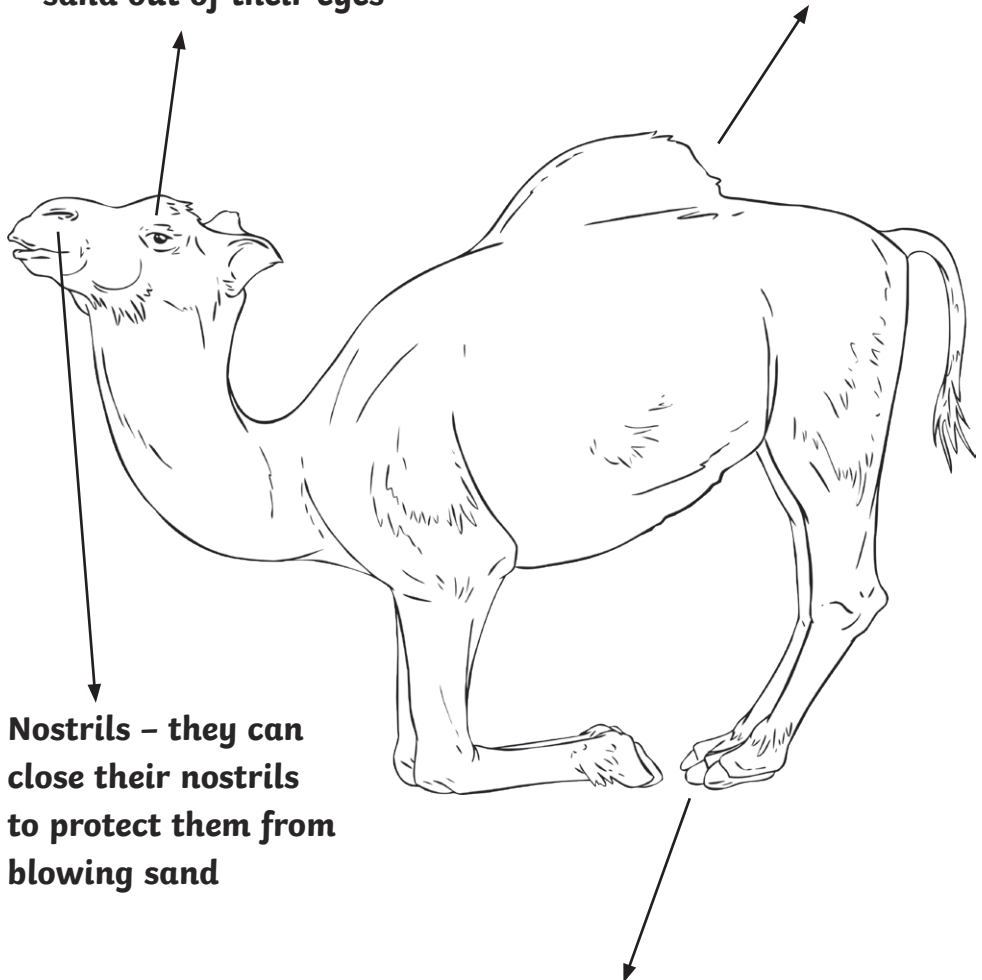
4. Draw lines to match the words to their definitions.



5. Label the camel with ways in which it has adapted to live in the desert.

**Eyes – they have long eyelashes to keep the sand out of their eyes**

**Humps – they can store fat and water to give them energy during long journeys**

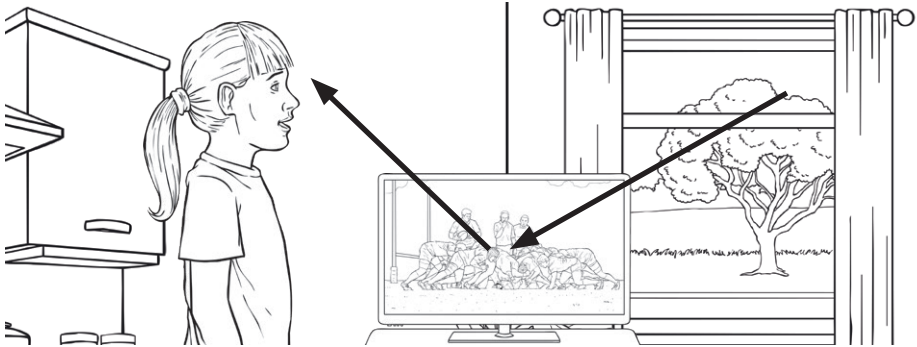


**Nostrils – they can close their nostrils to protect them from blowing sand**

**Feet – they have wide feet for walking in the sand**

# Light

1. Draw lines on the image below to show how the girl sees the television.



2. Name **two** light sources.

**Accept any two light sources, such as:**

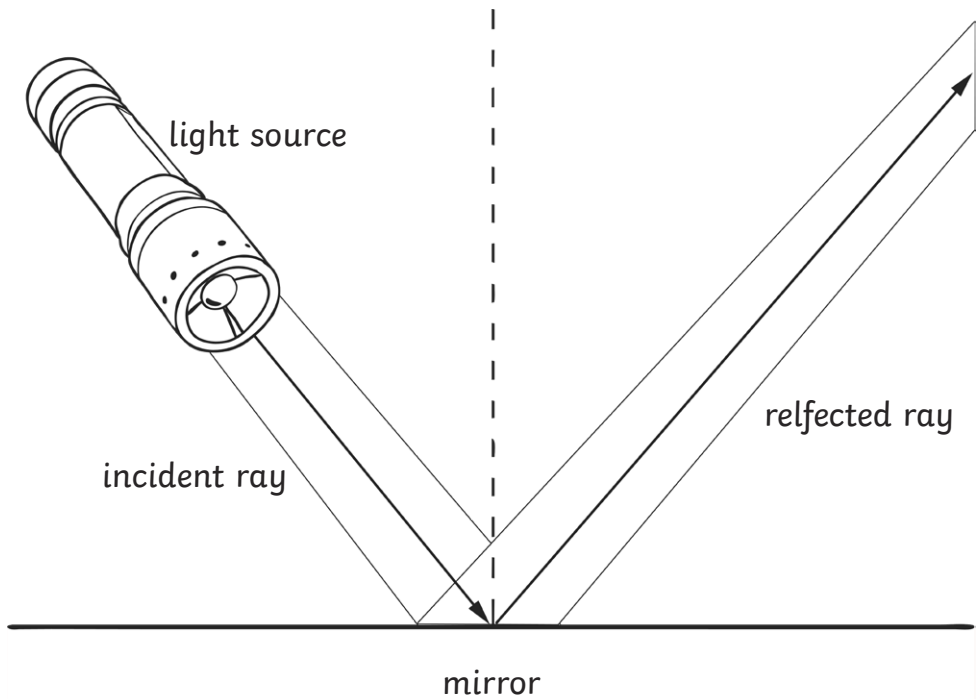
- **the sun**
- **a candle**
- **a lamp**
- **a torch**

3. True or false?

Light travels in curved lines.	<b>False</b>
When light bounces off a surface, it changes direction.	<b>True</b>
A shadow is formed where light has been blocked.	<b>True</b>
Light cannot travel through a vacuum.	<b>False</b>

4. The law of reflection states that the angle of the incident ray is equal to the angle of the reflected ray.

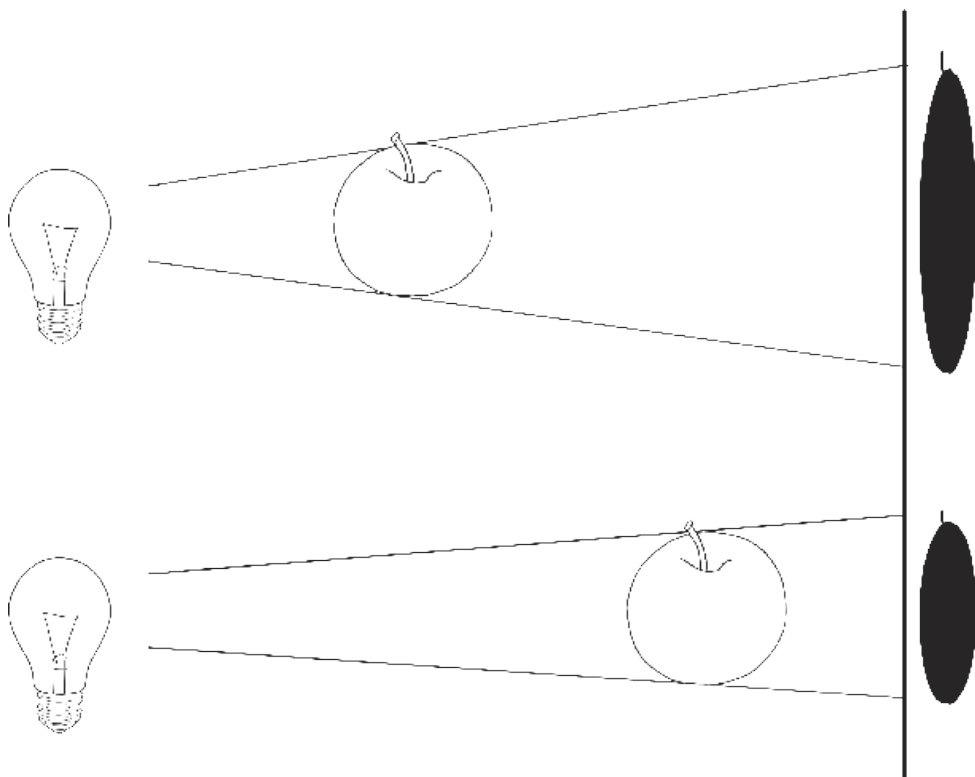
Label the diagram below with the words in the word bank below to illustrate the law of reflection.



5. Fill in the missing words

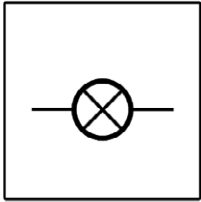
When a **shadow** of an object is made, it will always be the **same** shape as the object. This is because when an **opaque** object is in the path of light travelling from a light source, it will **block** the light rays that hit it, while the rest of the light can continue **travelling**.

6. Draw the shadow of the apple on the wall in both images below:

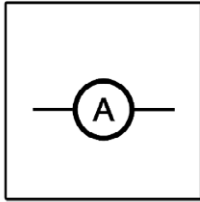


# Electricity

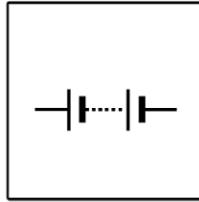
1. Label the following electrical symbols:



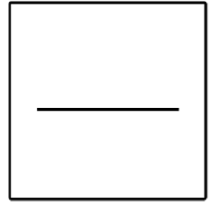
**lamp**



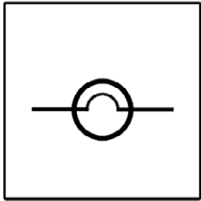
**ammeter**



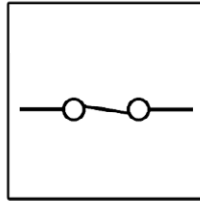
**battery**



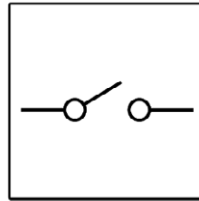
**wire**



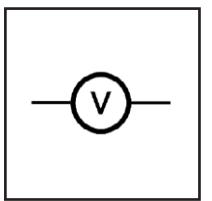
**lamp**



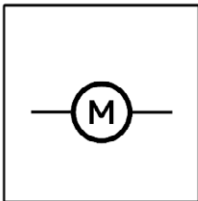
**closed switch**



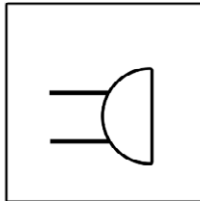
**open switch**



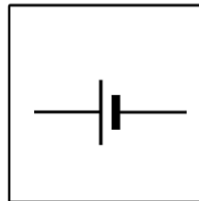
**voltmeter**



**motor**



**buzzer**

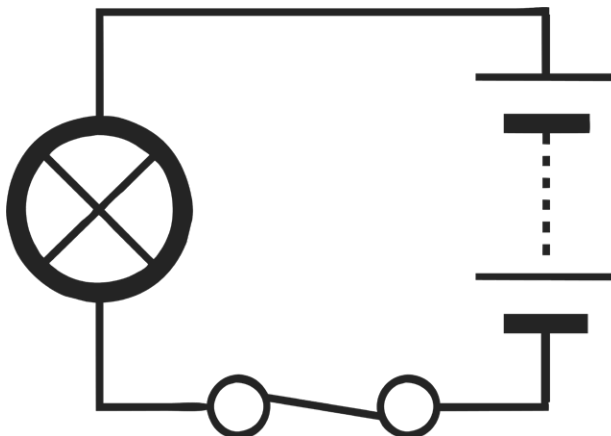


**cell**



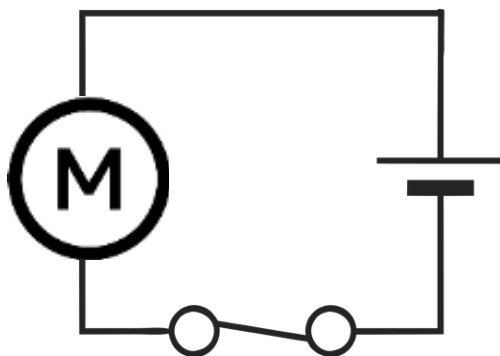
2. Draw a simple circuit with the following components:

battery, lamp and a closed switch



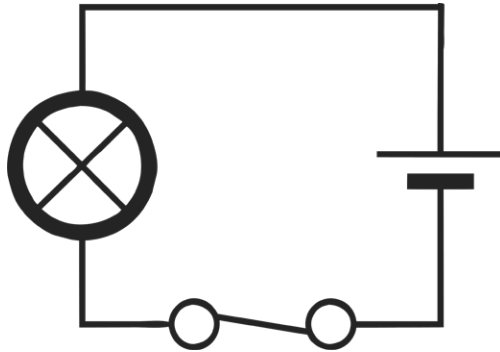
3. What will happen to the outcome of this circuit if more cells were added?

**The motor would run faster.**



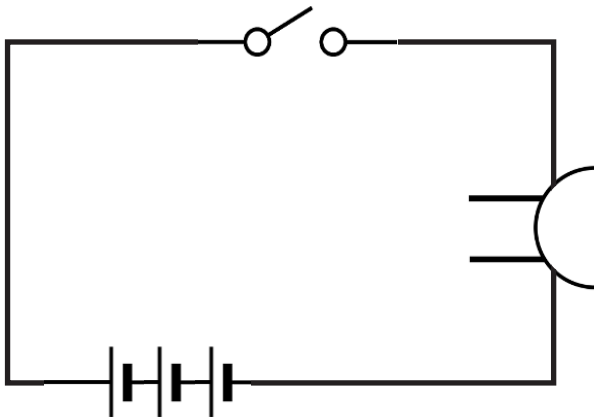
4. What will happen to the outcome of this circuit if another bulb was added?

**The bulbs would be less bright.**



5. What will happen to the outcome of this circuit if less cells were used?

**The buzzer would be quieter.**



6. What is voltage measured in?

**volts**