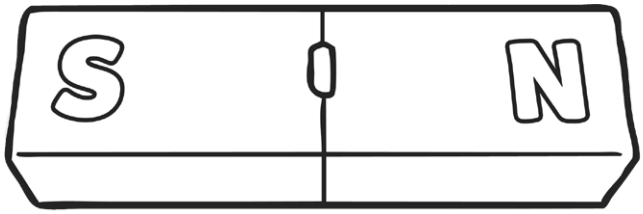
Exploring Magnets

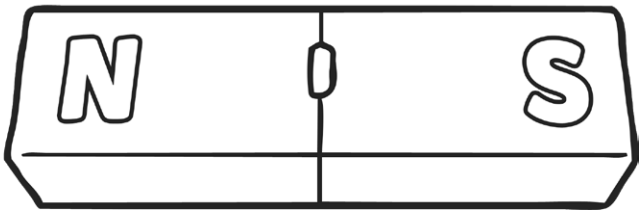
Complete the sentences using the word bank below.

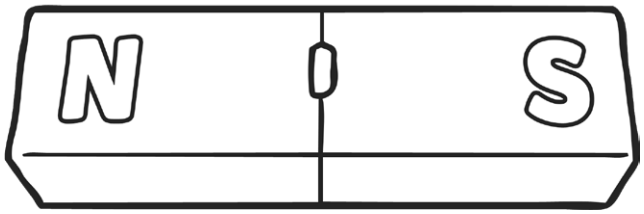
Magnets have two _____. One is called the _____ pole and the other is the _____ pole. When opposite poles are near one another, they _____ together. This means the two poles _____ . When two of the same poles are near one another, they _____ away from one another. This means the two poles _____ each other.

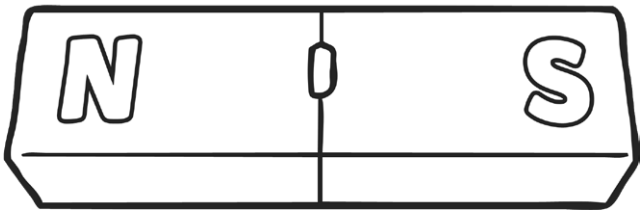
Word bank						
repel	north	attract	south	pull	push	poles

Draw arrows to show what force happens in these pictures.



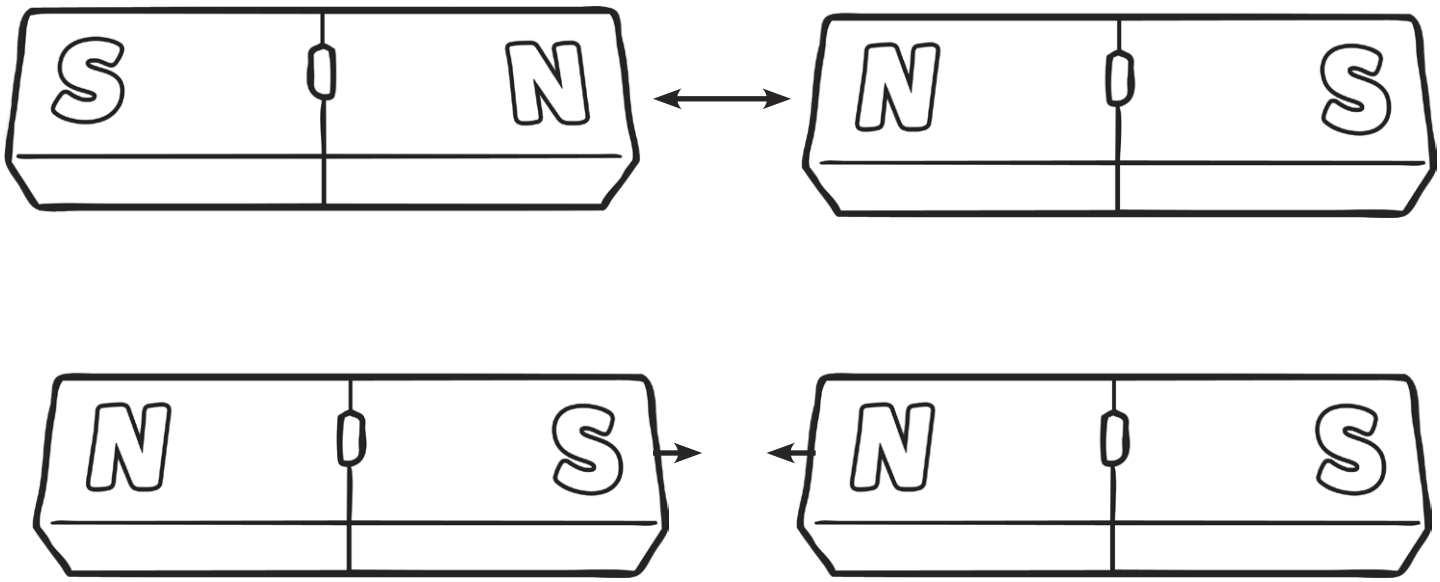






Exploring Magnets **Answers**

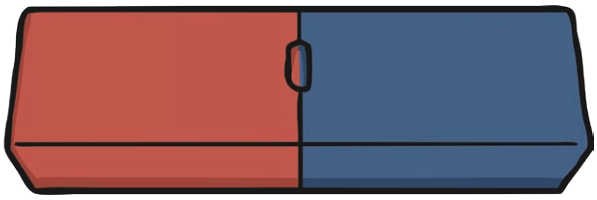
Magnets have two **poles**. One is called the **north** pole and the other is the **south** pole. When opposite poles are near one another, they **pull** together. This means the two poles **attract**. When two of the same poles are near one another, they **push** away from one another. This means the two poles **repel** each other.



Exploring Magnets

Here is a magnet:

Label the magnet.



Predict what you think will happen if you put ends of the same colour together.

Now predict what will happen if you put a red and a blue end together.

Now test your predictions. Explain what you observed.

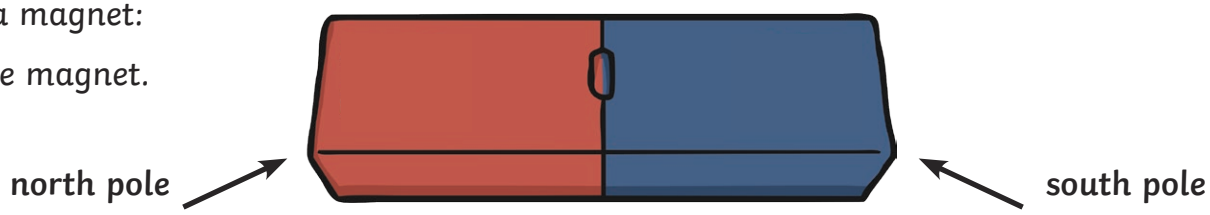
Draw a diagram to show what happened.

	Useful words south poles north push attracts pull repel

Exploring Magnets **Answers**

Here is a magnet:

Label the magnet.



Predict what you think will happen if you put ends of the same colour together.

Answers will vary.

Now predict what will happen if you put a red and a blue end together.

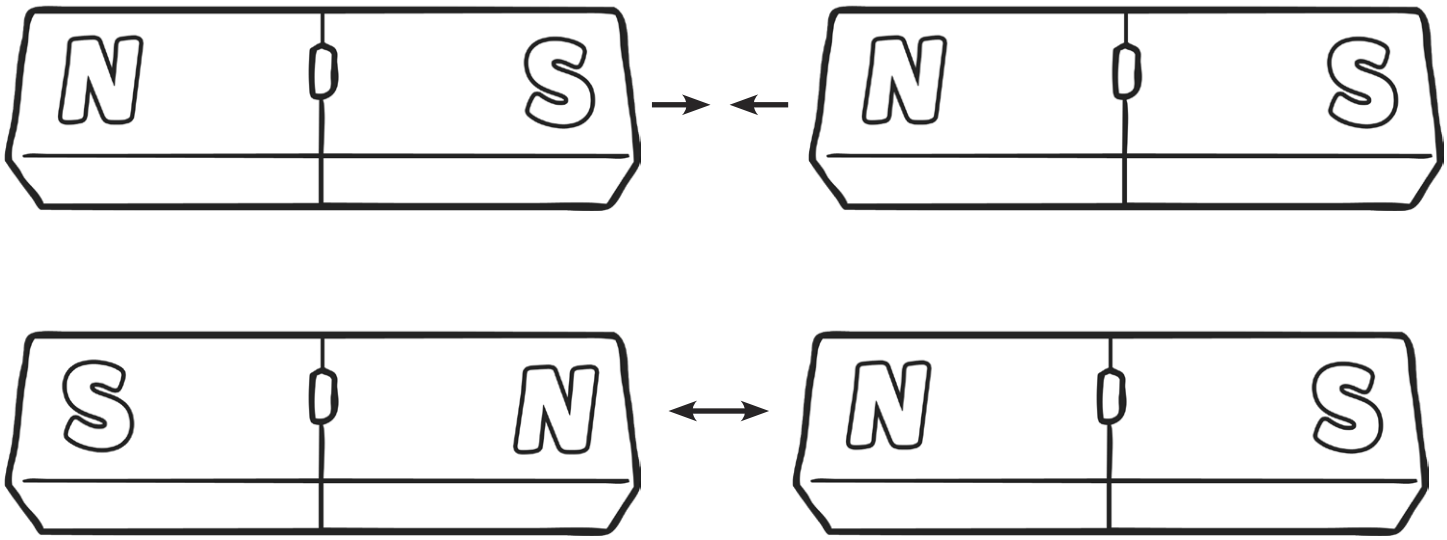
Answers will vary.

Now test your predictions. Explain what you observed.

Answers will vary but should include an explanation that the opposite poles pull towards each other and poles that are the same push away.

Draw a diagram to show what happened.

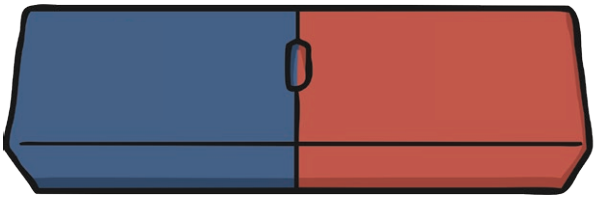
Diagrams should be similar to this:



Exploring Magnets

Here is a bar magnet:

Label the magnet.



Predict what will happen when you put the ends together.

Now test your predictions and in detail, explain what happened.

Answer these questions.

1. What does **attract** mean and what force can you see?

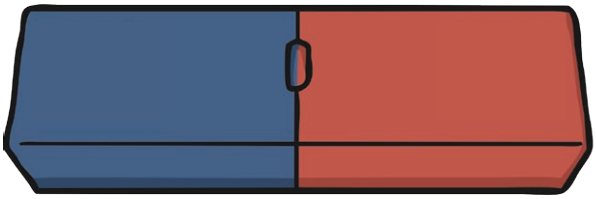
2. What does **repel** mean and what force can you see?

Draw what happened when you tested your predictions.

Exploring Magnets **Answers**

Here is a bar magnet:

Label the magnet.



south pole **north pole**

Predict what will happen when you put the ends together.

Answers will vary.

Now test your predictions and in detail, explain what happened.

Answers will vary but should include an explanation that the opposite poles pull towards each other and poles that are the same push away.

Answer these questions.

1. What does attract mean and what force can you see?

   Attract means that the two opposite poles, the north and south poles on a magnet, pull together.

2. What does repel mean and what force can you see?

   Repel is when two of the same poles, for example the north and north poles or the south and south poles, push away from one another when they are near each other.