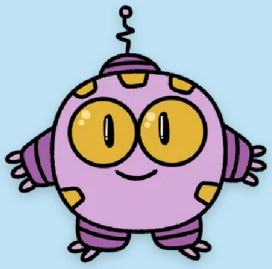
SCIENCE · MAGNETS · GRADES K–2

Magnetic or Not?

Write ten things under magnetic or not magnetic, then finish a sentence about what magnets pull on.

Name: _____ **Date:** _____



A magnet pulls on things made of **iron** or **steel**. It does not pull on wood, plastic, paper, rubber or glass.

Write each thing in the right column.

refrigerator door · wooden block · metal scissors · crayon · steel nail · rubber band · safety pin · plastic cup · sheet of paper · paper clip

Magnetic	Not magnetic

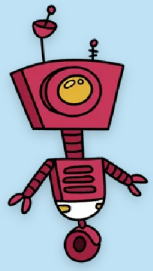
Magnets pull on things made of _____

Art © Kevin Coulston

SCIENCE · MAGNETS · GRADES 1–3

Magnet Predict and Test

Guess whether eight objects will stick to a magnet, test them and write what you found out.



Name: _____ **Date:** _____

You need: a magnet and eight objects from around the room. Write each object, make a guess, then touch the magnet to it. Were you right?

Object	My guess: will it stick?	Test: did it stick?	Was I right?
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

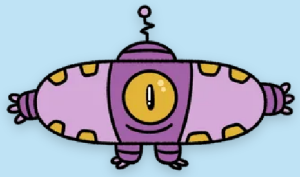
What did the things that stuck have in common?

Art © Kevin Coulston

SCIENCE · MAGNETS · GRADES 2–3

North and South Poles

Attract or repel? Circle what happens when two magnet poles meet, then mark four facts true or false.



Name: _____ **Date:** _____

Every magnet has a **north pole** (N) and a **south pole** (S). Poles that are different **attract** (pull together). Poles that are the same **repel** (push apart).

1. Two magnets come close. Circle what happens.

N meets S	attract	repel
N meets N	attract	repel
S meets S	attract	repel
S meets N	attract	repel

2. Circle True or False.

A magnet has two poles.	True	False
If you cut a magnet in half, each half has only one pole.	True	False
Earth acts like a giant magnet.	True	False
A compass needle is a tiny magnet that points north.	True	False

Try it: hold two magnets so they push apart. What did you feel?

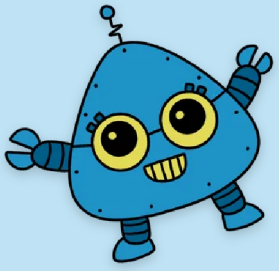
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SCIENCE · MAGNETS · GRADES K–2

Magnet Hunt

Walk around with a magnet and list five things it sticks to, five it does not and five to test.



Name: _____ **Date:** _____

Take a magnet for a walk around the room. Touch it gently to things and write what you find. Stay away from computers, phones and TVs.

Sticks	Does not stick	Not sure: test it!
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.
5.	5.	5.

The most surprising thing I found:

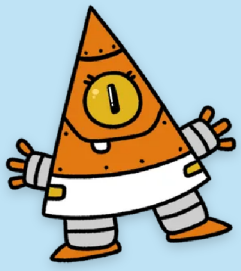
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SCIENCE · MAGNETS · GRADES 2–3

How Strong Is a Magnet?

An experiment: how many sheets of paper can a magnet pull a paper clip through?



Name: _____ **Date:** _____

Question: how many sheets of paper can a magnet pull a paper clip through? Put a paper clip on the table, cover it with paper, then hold the magnet on top and lift slowly.

My hypothesis: I think the magnet will work through this many sheets: _____

Sheets of paper	Did the paper clip lift?	What I noticed
0 sheets		
1 sheet		
2 sheets		
4 sheets		
6 sheets		
8 sheets		
10 sheets		

Most sheets it worked through _____ **Was my hypothesis right?** _____

Conclusion: does a magnet work through paper? What happens as the paper gets thicker?

_____

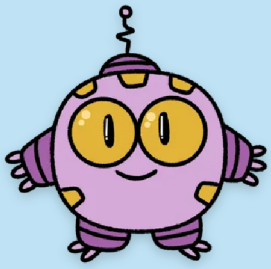
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ANSWER KEY · MAGNETS · GRADES K–2

Answer Key: Magnetic or Not?

Answers for grown-ups. Some questions have more than one good answer.



A magnet pulls on things made of **iron** or **steel**. It does not pull on wood, plastic, paper, rubber or glass.

Write each thing in the right column.

refrigerator door · wooden block · metal scissors · crayon · steel nail · rubber band · safety pin · plastic cup · sheet of paper · paper clip

Magnetic	Not magnetic
paper clip	crayon
steel nail	rubber band
safety pin	wooden block
refrigerator door	plastic cup
metal scissors	sheet of paper

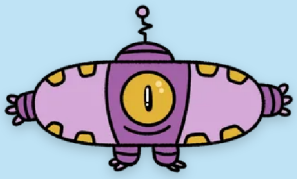
Magnets pull on things made of iron or steel

Art © Kevin Coulston

ANSWER KEY · MAGNETS · GRADES 2–3

Answer Key: North and South Poles

Answers for grown-ups. Some questions have more than one good answer.



Every magnet has a **north pole** (N) and a **south pole** (S). Poles that are different **attract** (pull together). Poles that are the same **repel** (push apart).

1. Two magnets come close. Circle what happens.

N meets S	**attract**	repel
N meets N	attract	**repel**
S meets S	attract	**repel**
S meets N	**attract**	repel

2. Circle True or False.

A magnet has two poles.	**True**	False
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Earth acts like a giant magnet.	**True**	False
A compass needle is a tiny magnet that points north.	**True**	False

Try it: hold two magnets so they push apart. What did you feel?

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