

Push or Pull? Magnet Poles

Predicting what two magnets will do

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Today we will...

WE ARE LEARNING TO

- Name the north pole and south pole.
- Predict attract or repel from poles facing.

SUCCESS LOOKS LIKE

✓ I can say what each pole pair will do.

✓ I can test and check my prediction.





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Attract or Repel?

Attract = pull together

- North faces south
- Magnets snap together
- Pull you can feel

Repel = push apart

- North faces north or south faces south
- Magnets push away
- Push you can feel



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Meet the Magnets

Bar magnet

Long bar with north at one end and south at the other.

Ring magnet

Round ring with poles on its two flat faces.



Horseshoe magnet

U shape that brings both poles close together.

Button magnet

Small flat circle that holds art on the fridge.



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Think, pair, share

If north faces north, will they pull together or push apart? Why?



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Watch: Pull or Push?



▶ 0:00 – 5:00

- Watch what north to south does
- Watch what same poles do





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Pole Pairs to Predict

North to South

Opposite poles pull together. Predict attract.

South to North

Opposite poles pull together. Predict attract.

North to North

Same poles push apart. Predict repel.

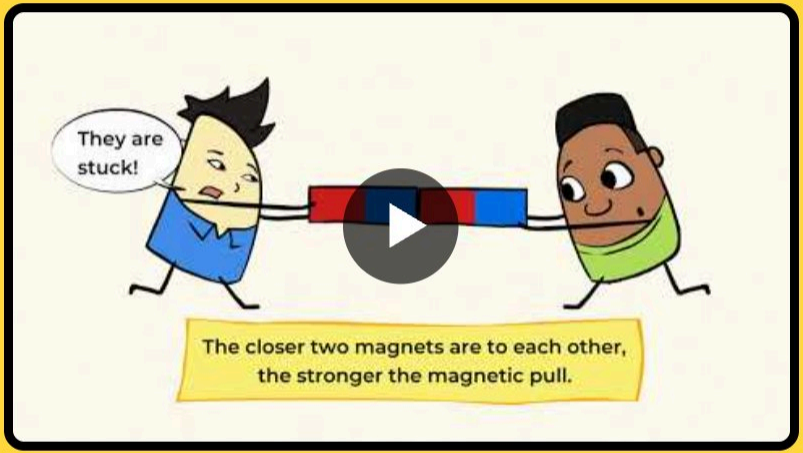
South to South

Same poles push apart. Predict repel.



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Watch: The Pole Rule



▶ 0:00 – 5:00

- Listen for the opposite poles rule
- Listen for the same poles rule





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Your task

In pairs, test pole pairs and check your predictions.

1. Say attract or repel before you move magnets.
2. Slowly bring those poles close together.
3. Record attract with pull arrow, repel with push arrows.

15 min

In pairs



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What We Found Out

1. Opposite poles attract every time.
2. Same poles repel every time.
3. Poles pull or push without touching.





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Which Would You Build?

Which push-away toy would you like to make best?

- **A** Floating train that hovers
- **B** Spinning top that never touches
- **C** Dancing puppet that wobbles away



Vote with your hands, then explain why.

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Exit ticket



1. One thing I learnt today...

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2. North to north will... because...



3. One question I still have...

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