

# Motion

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# Motion

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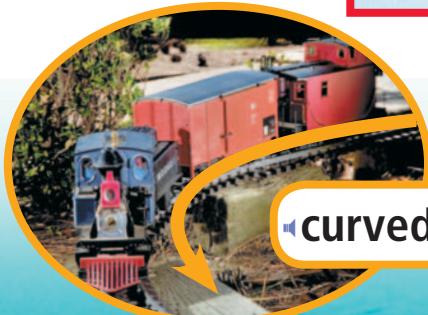


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# How Things Move

- Something moving is in motion.
- Things move in different ways.



- ▶ Things move at different speeds.
- ▶ Speed is how fast something moves.



# Pushes and Pulls

- A force makes things move or stop.
- Pushes and pulls are forces.



- ▶ You push something away from you.
- ▶ You pull something toward you.



▶ **pulling**

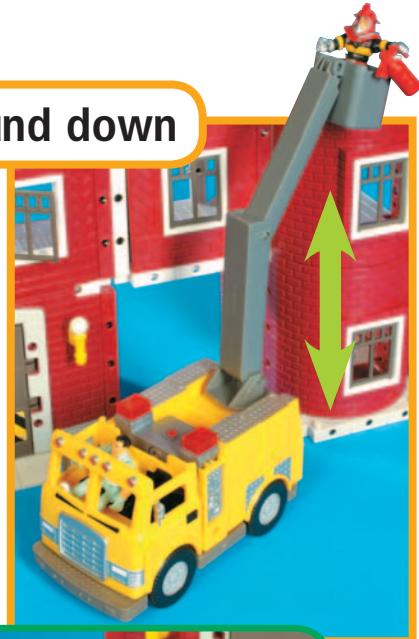
▶ **pushing**

# Using Force

inside and outside



up and down



forward and backward



- You can use force to change things.
- Force can change where an object is.

► The batter changes the ball's direction.



- It can change an object's direction.
- It can also change an object's speed.

# ► Gravity



► Gravity pulls the girl down the slide.

- Gravity is a force.
- It pulls things down to the ground.

# Magnets



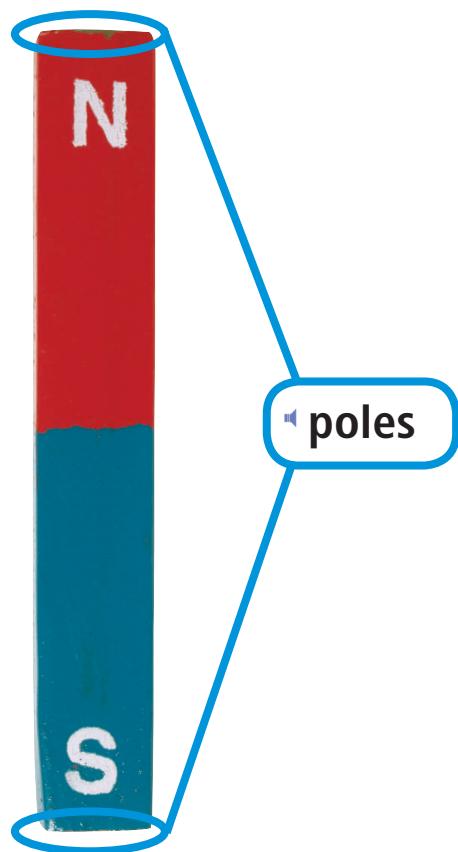
magnet



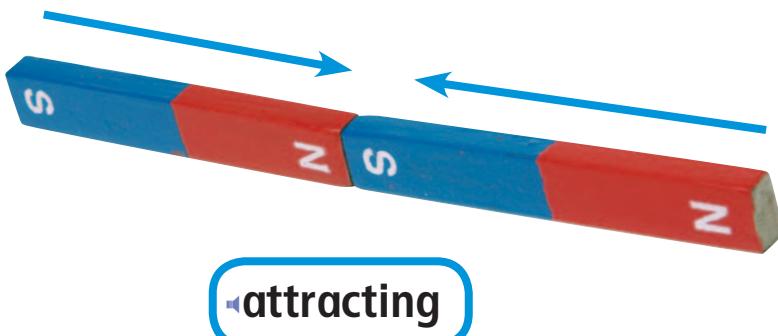
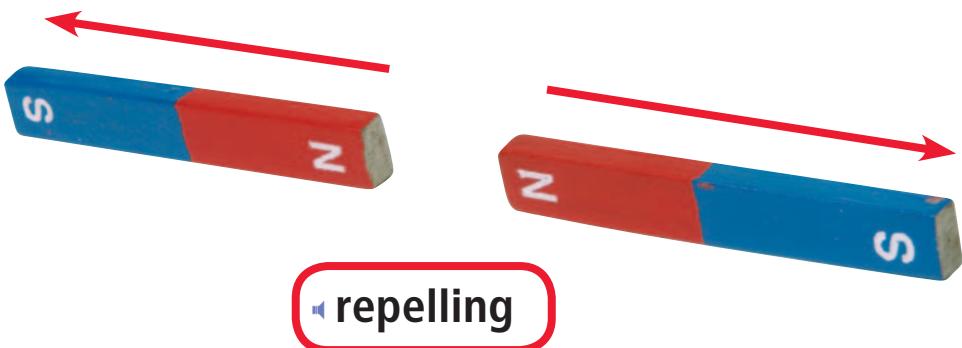
magnets

- ▶ A magnet attracts things made of iron.
- ▶ Its pull is called magnetic force.

# Poles of a Magnet



- Magnets have a pole at each end.
- The pull is strongest at the poles.



- Different poles attract each other.
- Like poles repel, or push each other away.

## ► **Vocabulary**

- **motion**, p. 2
- **speed**, p. 3
- **force**, p. 4
- **push**, p. 4
- **pull**, p. 4
- **gravity**, p. 8
- **magnet**, p. 9
- **attract**, p. 9
- **magnetic force**, p. 9
- **pole**, p. 10
- **repel**, p. 11

- ▶ **Think About the Reading**

- ▶ **1.** What questions do you have after reading this book?
- ▶ **2.** How can you find answers to these questions?

- ▶ **Hands-On Activity**

- ▶ **1.** Write the names of objects that move on index cards.
- ▶ **2.** Sort the cards by the speed of the objects.

- ▶ **School-Home Connection**

- ▶ Tell a family member what you have read about motion. Talk with the family member about things you see in motion.