

## **WHAT ARE FORCES?**

### **KEY IDEAS**

- All forces are pushes or pulls, or a combination of them (bends and twists)
- Forces are responsible for changes in motion
- Forces are invisible

### **EXAMPLE QUESTIONS**

- What do you think forces are?
- Can you see a force?
- What do forces do?

## **FORCES ARE PUSHES, PULLS, OR COMBINATIONS OF PUSHES AND PULLS**

- All forces are pushes or pulls.
- Twists and bends are combinations of pushes and pulls.

### **FORCES ARE INVISIBLE**

- There are many types of forces (electrical, magnetic or gravitational, for example).
- We cannot actually see a force; we can see only the effects or results of a force.

## **UNBALANCED FORCES CAUSE CHANGES IN MOTION**

- Pushes and pulls cause things to start moving, speed up, slow down, change direction or stop moving.
- All changes in motion happen because of unbalanced forces.

- Motion increases when a force is being exerted.
- Motion stops when a force opposes the motion.

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