Studies Weekly™
Footprints

GRADE K

Magnets and Gravity

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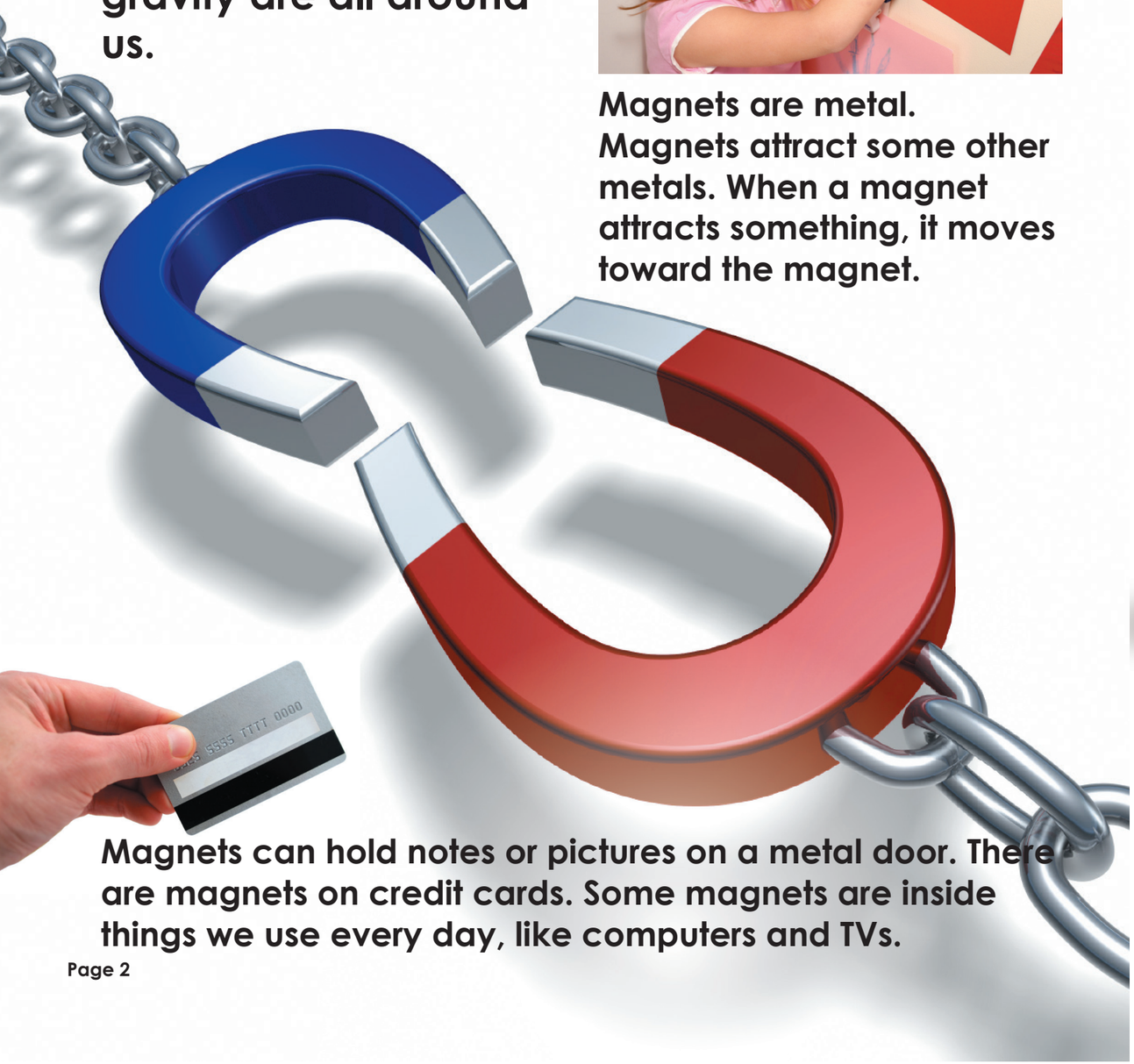
Magnets and gravity are forces. A force is energy that can move or change something.

Magnets and Gravity

Magnets and gravity can move or change things. Magnets and gravity are all around us.

Magnets are metal. Magnets attract some other metals. When a magnet attracts something, it moves toward the magnet.



Magnets can hold notes or pictures on a metal door. There are magnets on credit cards. Some magnets are inside things we use every day, like computers and TVs.

Gravity pulls objects toward the Earth. Anything that is close to the Earth will fall unless something else holds it up.

Gravity keeps you on the Earth. Gravity makes you fall when you trip.

Look & Learn

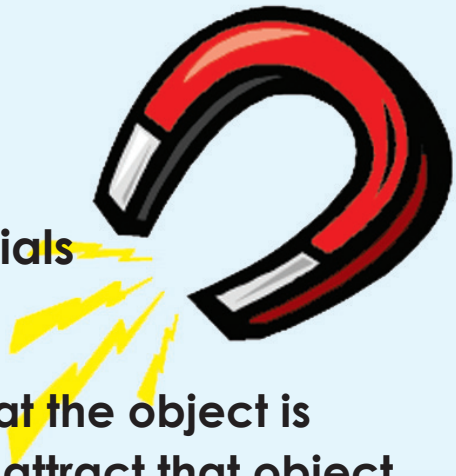
This man just jumped from a plane. Gravity is pulling him down toward the ground. He is falling fast.

He opens his parachute. The parachute slows down his fall, and he can come down to Earth safely.

Do&Learn

Name_____

Magnets



What You Need (for each group)

- a magnet
- several objects made of different materials

What to Do

1. Look at one of the objects. Talk about what the object is made of. Predict whether the magnet will attract that object.
2. Hold the magnet near the object. Did the magnet attract it? Talk about why it did or did not.
3. Repeat steps 1 and 2 for each of the objects.
4. Sort the objects. Put all the things the magnet attracted in one place. Put all the things the magnet did not attract in another place. Talk about how the things in each group are alike and different.

Circle yes if the sentence tells something that is correct.
Circle no if the sentence tells something that is not correct.

1. Magnets and gravity are forces.

   yes no

2. Gravity pushes objects away from the Earth.

   yes no

3. There are magnets in computers and TVs.

   yes no

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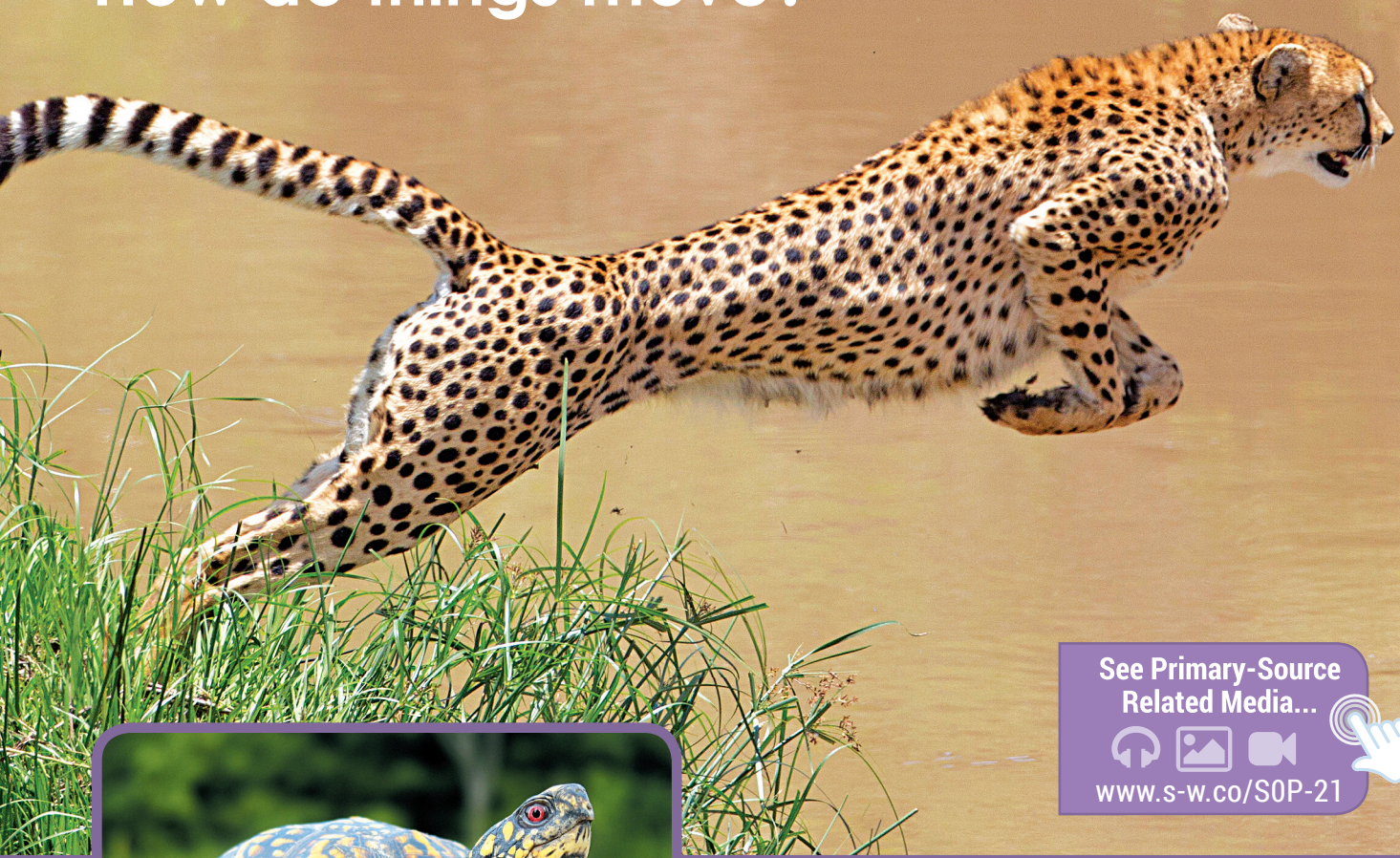
Move It

How do things move?



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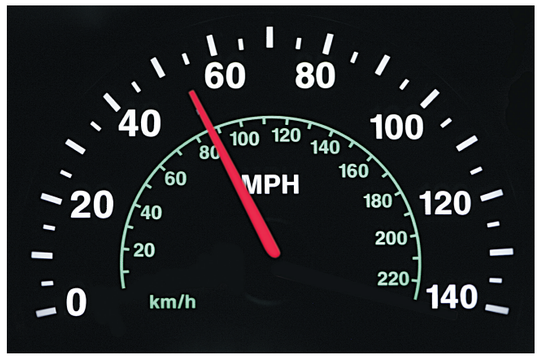
Things can move fast.
Things can move slowly.
Things can move in different ways.

Move It

Things can move back and forth. Things can move up and down. Things can move around and around. Things can move in a straight line.

Speed is how fast or how slowly something moves. We can measure speed with a speedometer. A car has a speedometer.

We can make things move. Things move when we push them. Things move when we pull them.



Some things are easy to move. Some things are hard to move.

Most of the time, bigger things are harder to move than smaller things.

Look & Learn

Do you have a pet at home? When you go home, watch how your pet moves.

At school, talk to your friends about how pets move. Do they walk on four legs? Swim? Fly? Talk about their speed.

Do&Learn

Name_____

What You Need

- different kinds and sizes of balls
- a friend or two
- an outside space

What to Do

1. Move the balls any way you want. Kick them, roll them, bounce them and throw them. (Be careful. You don't want to hurt your friends or yourself.)
2. Talk about how the balls move. Do different balls move in different ways? What happens if you kick or throw or bounce them harder? Here are some words to use:

high hard slow roll
bounce kick throw
close low fast far long

3. Roll one of the balls. Ask your friend to put his or her foot in the way. What happens when the ball hits your friend's foot?

Draw a picture of you and your friends moving the balls.