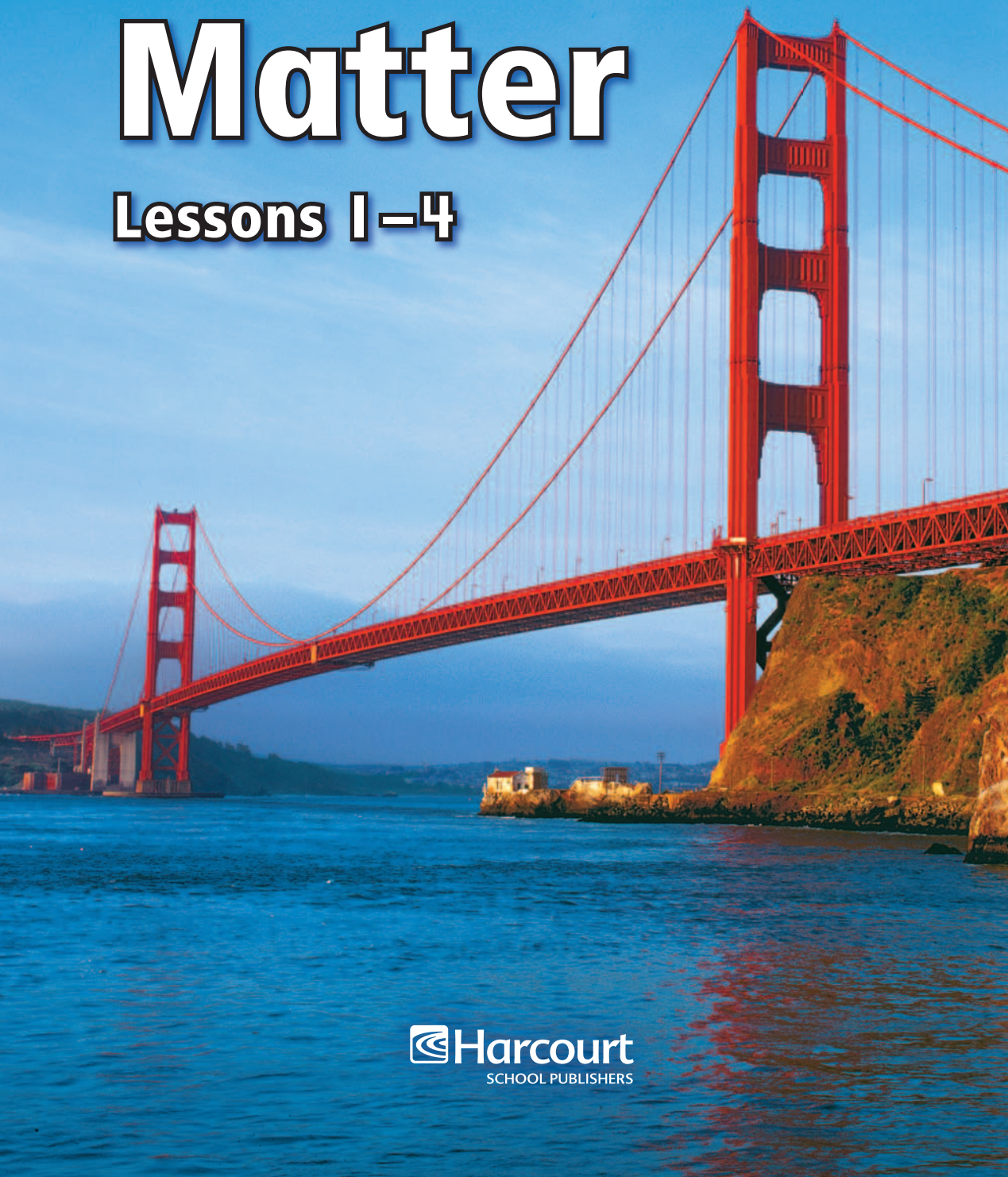


States of Matter

Lessons 1–4



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States of Matter

Lessons 1-4

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🔊 Matter



- 🔊 Everything is matter.
- 🔊 Matter can be a solid.

- ▶ Matter can be a liquid.
- ▶ It can be a gas.



gas



liquid

Properties of Matter

- ▶ All matter takes up space.
- ▶ This is a property of matter.



- ▶ All matter has mass.
- ▶ This is a property of matter, too.

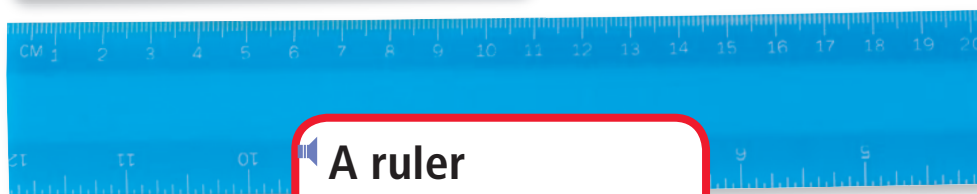


🔊 Solids



🔊 Everything in this picture is a solid.

🔊 Solid matter keeps its shape.



 A ruler measures length.

-  You can measure how long a solid is.
-  You can measure the mass of a solid.



 A balance measures mass.

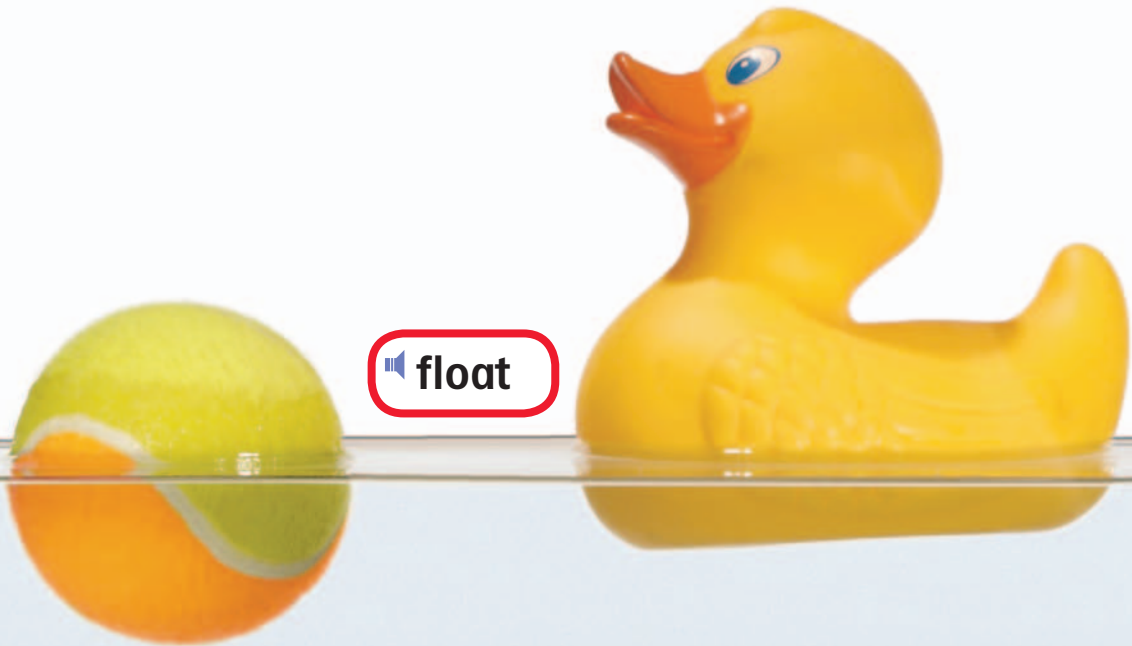
Liquids



▶ You can pour a liquid.

- ▶ Liquid matter flows.
- ▶ It changes shape.

- Some solids float in water.
- Some sink.



Measuring Liquids



measuring cup

- How much space does a liquid take up?
- Use a measuring cup to find out.



balance

- How much mass does a liquid have?
- Use a balance to measure mass.

Gases



 Air takes the shape of the balloons.

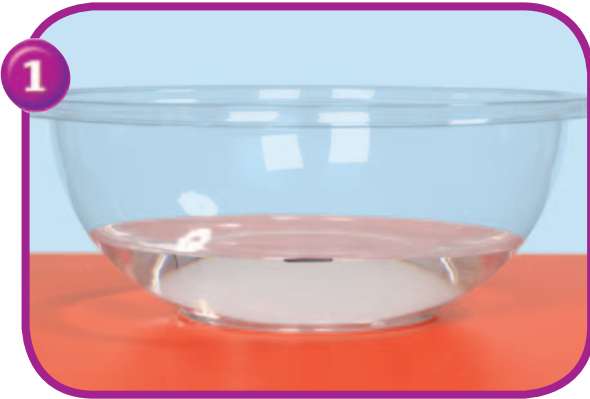
-  Gas is matter that has no shape.
-  Gas takes the shape of its container.

🔊 Air is made of many gases.

🔊 Air that moves
makes a kite fly.



Measuring Gases



The water goes up because the balloon takes up space in the bowl.

- How much space does gas take up?
- You can measure to find out.

- ▶ How much mass does gas have?
- ▶ You can use a balance to find out.



The blue balloon has more mass than the orange balloon.

Vocabulary

-  **matter, p. 2**
-  **solid, p. 2**
-  **liquid, p. 3**
-  **gas, p. 3**
-  **property, p. 4**
-  **mass, p. 5**
-  **measure, p. 7**
-  **float, p. 9**
-  **sink, p. 9**
-  **balance, p. 11**
-  **air, p. 13**

Think About the Reading

-  **1.** What questions do you have about solids, liquids, and gases?
-  **2.** What can you do to find the answers to your questions?

Hands-On Activity

-  **1.** Make a tracing of your hand.
-  **2.** Measure each finger. Write the length of each finger.

School-Home Connection

Tell a family member what you have learned about matter. Take turns naming solids and liquids you use at home.