

States of Matter

Lessons 5–6



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Mixing Matter

Lemonade is a mixture of water, juice, and sugar.



You can mix matter.

- ▶ You can take a mixture apart.
- ▶ The parts stay the same.

▶ The fruit in this salad does not change size or shape.



Freezing

- Water can get so cold it freezes.
- Frozen water is ice, a solid.



juice, a liquid



juice pop, a solid

▶ Melting

- ▶ Warm air can melt ice.
- ▶ Melted ice is water, a liquid.



Heating Water

- Water changes when it is heated.
- It changes to a gas.

boiling water



🔊 The gas is called steam.



Steam cools and forms drops of water.



Burning

- Fire changes matter into new matter.
- The new matter can not change back.



- ▮ Fire can burn wood.
- ▮ It changes wood to ashes and smoke.



▮ The ashes and smoke can not change back into wood.

▶ Cooking

- ▶ Cooking changes matter.
- ▶ The new matter can not change back.

▶ The toast can not change back to the way it was before.



- ▶ Eggs change when they are cooked.
- ▶ They can not change back.



Vocabulary

-  matter, p. 2
-  mix, p. 2
-  mixture, p. 2
-  freeze, p. 4
-  solid, p. 4
-  melt, p. 5
-  heat, p. 6
-  gas, p. 6
-  burn, p. 9
-  cook, p. 10

Think About the Reading

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

Hands-On Activity

-  **1.** Put a drop of water on a paper towel.
-  **2.** Observe to find out how long it takes for the water to evaporate.

School-Home Connection

Tell a family member what you have learned about the ways matter changes. Take turns naming examples of changes you have seen.