

Science

Science

Physical Science

# Observing Matter

by Anna Schlecker



Genre	Comprehension Skill	Text Feature	Science Content
Nonfiction	Alike and Different	• Glossary	Matter

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# Observing Matter

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## Vocabulary

dissolve

evaporate

gas

liquid

mass

matter

solid



**Illustration:** 2 David Preiss

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## What is matter?

**Matter** takes up space.

It has **mass**.

It has tiny parts.

Some parts are too small to see.



## Describing Matter

Matter can have different shapes.

It can have different sizes.

How are the things in this picture alike and different?





What are solids, liquids, and gases?

A **solid** is matter.

It takes up space.

A solid does not change shape.



A **liquid** is matter.

A liquid is in this bottle.

It takes the shape of the bottle.

A liquid takes the shape of what it is in.





A **gas** is matter.

It takes up space.

It can change size and shape.

It takes the shape of what it is in.



Bubbles are filled with air.

Air is a gas.





## How does matter change?

Matter can change.

It can change in many ways.



A liquid can freeze when it is cold.

A solid can melt when it is hot.





## Mixing Solids and Liquids

Soup is made of solids and liquids.  
The solids and liquids are mixed.  
You can take the solids out of the liquid.



Some solids dissolve in liquids.

**Dissolve** means to spread throughout a liquid.





## How can water change?

Water is a liquid.

Water can freeze when it gets cold.

The water changes to ice.

Ice is a solid.



Heat melts ice.

The ice changes to water.

Water boils when it gets very hot.

The water changes to a gas.

This gas is water vapor.







What are other ways matter changes?

Heat makes water evaporate.

**Evaporate** means to change from liquid to gas.

The Sun can make water on the ground evaporate.



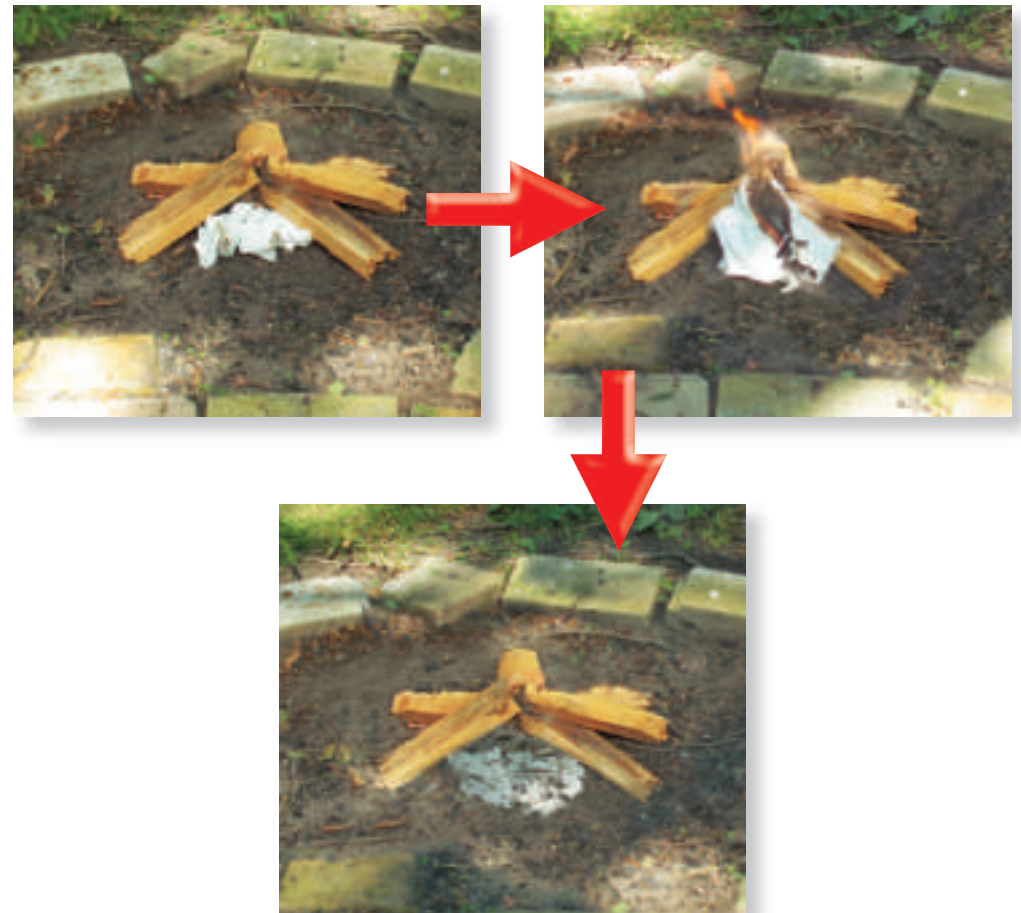
Paper is a solid.

Paper can burn.

It will not turn back into paper.

Matter is all around us.


It can change.



## Glossary

<b>dissolve</b>	to spread throughout a liquid
<b>evaporate</b>	to change from a liquid to a gas
<b>gas</b>	matter that can change size and shape
<b>liquid</b>	matter that takes the shape of its container
<b>mass</b>	the amount of matter in an object
<b>matter</b>	anything that takes up space
<b>solid</b>	matter that takes up space and has its own shape

## What did you learn?

1. What are some things in your classroom that are made of matter?
2. How can you describe matter?
3. **Writing in Science** Matter can change. Write to describe one way matter can change. Use words from the book as you write.
4.  **Alike and Different** How is a solid like a liquid? How is it different?

