SCIENCE

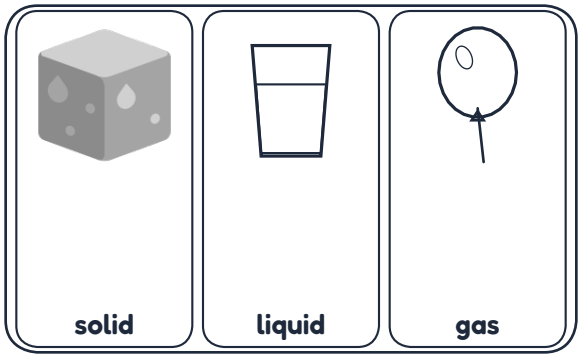
Solids, liquids and gases

Name _____ Date _____

I can sort things into solids, liquids and gases.

1 How it works

Everything around us is matter. Matter takes up space and has weight. A solid keeps its own shape, like a block or an ice cube. A liquid flows and takes the shape of its container, like milk or water. A gas spreads out to fill any space, like the air in a balloon. Water can be all three: ice, water and steam.



2 Solid, liquid or gas?

Use the words in the box.

solid | liquid | gas


water _____


books _____


apple _____


air in a balloon _____

milk _____


rock _____


honey _____


steam _____

How did I do? ☆ ☆ ☆

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Matter all around

Name _____ Date _____

I can sort matter into solids, liquids and gases.

1 Sort the matter

Write each word in a column.

oil | spoon | soup | block | air | chair | steam | smoke | juice

solid	liquid	gas

2 Fill in the blanks

Use the words in the box.

liquid | steam | gas | solid

1. A _____ keeps its own shape.
2. A _____ flows and fills the bottom of a cup.
3. A _____ spreads out to fill a whole room.
4. When water boils, it turns into _____.

How did I do? ☆ ☆ ☆

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Think like a scientist

Name _____ Date _____

I can explain how solids, liquids and gases are different.

1 Think about it

1. How is a solid different from a liquid? _____
2. Why does juice take the shape of a cup? _____
3. How do you know air is real? _____
4. Name 3 forms water can take. _____

2 True or false? Circle it.

1. A rock is a solid.	**true**	**false**
2. Steam is a solid.	**true**	**false**
3. Air is a gas.	**true**	**false**
4. A liquid takes the shape of its container.	**true**	**false**
5. Milk keeps its own shape.	**true**	**false**

3 Draw a solid, a liquid and a gas from your home. Label them.

How did I do? ☆ ☆ ☆

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Try it: solid, liquid or gas?

Name _____ Date _____

I can test the shape of a solid, a liquid and a gas.

1 You need

-  an ice cube on a plate
-  a cup of water
-  a clear plastic bottle
-  a balloon
-  a grown-up

2 What to do

1. Look at the ice cube on the plate. Does it keep its own shape?
2. Pour the water into the bottle, then back into the cup. What shape is it now?
3. A grown-up blows up the balloon. What fills it?
4. Let the air out slowly near your hand. Can you feel the gas?

3 I predict

Which one keeps its own shape: the ice, the water or the air?

_____

_____

4 What I see

Thing	Solid, liquid or gas?	How I know
ice		
water		
air		

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: solids, liquids and gases

1 Page 1

States: 1) water: liquid; 2) books: solid; 3) apple: solid; 4) air in a balloon: gas; 5) milk: liquid; 6) rock: solid; 7) honey: liquid; 8) steam: gas.

2 Page 2

Sort: 1) solid: block, spoon, chair; 2) liquid: juice, oil, soup; 3) gas: air, steam, smoke.

Blanks: 1) solid; 2) liquid; 3) gas; 4) steam.

3 Page 3

Think: 1) A solid keeps its shape; a liquid flows; 2) It is a liquid, so it flows; 3) It fills a balloon, and you can feel wind; 4) Ice, water and steam.

True or false: 1) true; 2) false; 3) true; 4) true; 5) false.

Drawing: answers will vary, for example a spoon (solid), milk (liquid) and the air in a balloon (gas).

4 Page 4: Try it!

The ice keeps its own shape, so it is a solid. The water changes shape to fit the bottle and then the cup, so it is a liquid. The air spreads out to fill the whole balloon, and you can feel it rush out, so it is a gas. All three are matter: they take up space.

5 Teaching tip

Hold up a block, a cup of water and a blown-up balloon. Let children push, pour and squeeze each one, then decide which group it belongs in and say how they know.

Safety: a grown-up blows up the balloon. Broken balloons can make children choke, so throw away any pieces at once.

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