Name & Surname: _____ Class: _____ Date: _____

States of Matter

Sort solids, liquids and gases!

About 30 minutes Level ★★★☆☆

The three states

All materials are **solids**, **liquids** or **gases**. We group them by how they look and behave.

- Solids hold their **shape** and take up the same space. Examples are wood, ice and sand. Even sugar and salt that can be poured are solids.
- Liquids flow and form a **pool**, not a pile. They take the shape of their container but keep the same volume. Examples are water, milk and honey.
- Gases spread out and **escape** from an open container. They fill all the space and change shape and volume. Examples are steam, oxygen and helium.



Task A

Example done for you

/5

Fill the gaps with the states of matter. Word bank: solids, liquids, gases, shape, volume, escape.

volume | liquids | escape | ~~solids~~ | shape | gases

Materials called solids keep their _____. Materials called _____ flow and take the shape of their container but keep the same _____. Materials called _____ spread out to fill space and _____ from an open container.

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Look Closely

Observe one change and share your ideas.

Key words

solid: keeps its own shape

gas: spreads out to fill all space

volume: how much space something takes up

liquid: flows and takes the shape of its container

shape: what the outside looks like

container: something that holds material, like a cup

Task B

Look at the melting picture. Write one short idea for each row.



What do you see?

I see a solid block and a pool of liquid.

What do you think about that?

What does it make you wonder?

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Fact or Opinion

Decide what can be checked and tested.

Task C /6

Tick fact or opinion for each statement. Then explain how you can tell for one of them.

Statement	Fact	Opinion
Solids keep their own **shape**.		
Liquids take the **shape** of their container.		
Gases **escape** from an unsealed container.		
Honey is the best **liquid** of all.		
Steam from a kettle is more exciting than **ice**.		

How can you tell that one of them is an opinion?

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Causes and Order

Link heating to change and order materials.

Task D

Sort the causes and effects of melting. The middle shows the change.

Causes		Effects
it is heated in a warm room		it becomes a flowing liquid
	an ice cube melts to water	

Task E

Example done for you

/3

Place each material on the line from keeps its shape to spreads out. Write letters A to D.

keeps its shape — A — **spreads to fill space**

A ~~steam from a kettle~~

B wooden block

C pouring sugar

D milk in a cup

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Fix and Build

Correct mistakes and write clear sentences.

Task F

/4

Find 4 mistakes about states of matter. Underline each and write the fix.

Solids flow to fill a container. Liquids keep their own shape all the time. Gases stay in one pot when it is left open. Wood and sand are examples of gases.

There are 4 mistakes.

Mistake	Correction

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States of Matter

Task G

/3

Pick one box from each column to build correct sentences. Write three in your book.

A wooden block	keeps	its own shape
Honey	takes	the shape of its jar
Steam	spreads to	fill the whole room
		your own idea

Write three sentences

A wooden block keeps its own shape.

How did I do?

Circle a face for each line.

I can name solids, liquids and gases.

I can group materials by their state.

I can describe how each state behaves.

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Answer sheet: States of Matter

Task A

Materials called [SOLIDS] keep their [SHAPE]. Materials called [LIQUIDS] flow and take the shape of their container but keep the same [VOLUME]. Materials called [GASES] spread out to fill space and [ESCAPE] from an open container.

Task B

Answers will vary, e.g. I see a solid block and a pool of liquid.

Task C

1. Fact
2. Fact
3. Fact
4. Opinion
5. Opinion

Task D

Causes: it is heated in a warm room; heat energy reaches the solid ice
Effects: it becomes a flowing liquid; it forms a pool, not a pile; it takes the shape of its container

Task E

From keeps its shape to spreads to fill space: B, C, D, A

Task F

1. flow to fill a container → hold their shape
2. keep their own shape → take the shape of their container
3. stay in one pot → spread out and escape
4. examples of gases → examples of solids

Task G

Answers will vary, e.g. A wooden block keeps its own shape. Honey takes the shape of its jar. Steam spreads to fill the whole room.

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