Solids, Liquids and Gases

Sorting everything around us





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Today we will...

WE ARE LEARNING TO

- Compare everyday materials by what they do
- Group materials as solid, liquid or gas

SUCCESS LOOKS LIKE

✓ I can sort things into 3 groups

✓ I can say why it fits there





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HOW MANY GROUPS?

3

states of matter to sort

All the stuff around us can be grouped as solid, liquid or gas.





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Three groups to sort



Solid

Keeps its own shape and can be held.



Liquid

Flows and takes the shape of its tub.



Gas

Spreads out to fill all the space.

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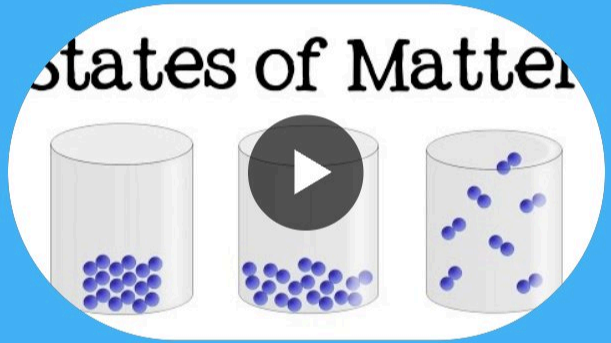
What could this be?

I can be poured, but I am not a liquid. What am I?



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Watch: solids, liquids, gases



▶ 0:00 – 4:35

- Spot one example of each state
- Listen for shape and flow words

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DID YOU KNOW?

Flour, salt and sugar can pour but are solids.

Each tiny piece keeps its own shape, so they pile up.



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Sorting quiz time



▶ 0:00 – 5:00

- Clap for solid, splash for liquid, whoosh for gas
- Say why before you answer

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Your task

Sort table things into three hoops: solids, liquids and gases.

1. Look closely and touch where safe
2. Test: keeps shape, flows, or fills space?
3. Place object or picture in hoop
4. Tell group why it fits there

15 min

Groups of 4

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How to decide?



Keep?

Does it keep its shape in your hand?



Flow?

Does it flow and take the tub shape?



Fill?

Does it spread out to fill space?

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What to test next?

Which tricky one shall we test as a class?



A Sand poured into a tub

B Honey squeezed from a bottle

C Air pumped into a tyre



Vote with your hands, then explain why.

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Quick quiz

1. Which group keeps its own shape?
2. Milk is poured into a cup. Solid, liquid or gas?
3. Air in a balloon. Solid, liquid or gas?
4. Poured sugar is solid or liquid?

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