Fast Five

Can you name 3 types of soil and explain why soils are different?

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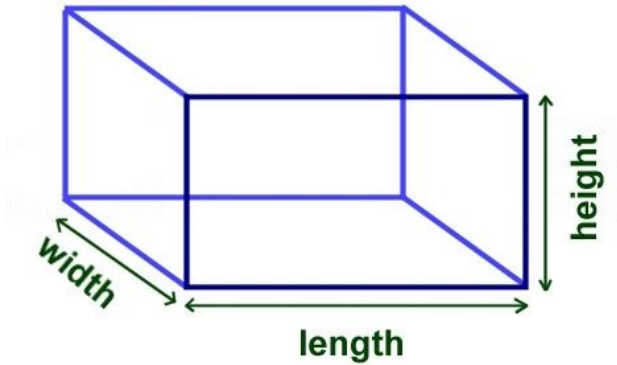
Can you name 3 types of soil and explain why soils are different?
Gravelly soil, sandy soil and clay soil.

Soils are different because they are made up of worn down rocks and rocks are not all the same. The type of soil depends on the type of rock(s) that have been worn down to make it.

Can I identify solids, liquids and gases?

Recap: what is volume?

- Volume is the amount of space a 3d shape takes up.
- Work out the volume of a shape by multiplying height × width × depth.
- For solids, liquids and gases, it will the amount of space they take up.



Solids

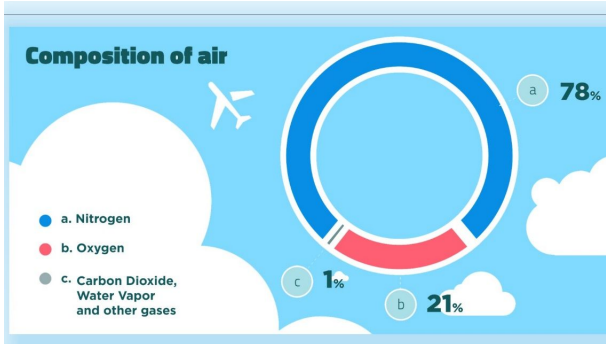
- They can be cut or shaped.
- Anything you can take hold of is solid.
- The shape and volume do not change unless you break a bit off.

Liquids

- They are runny and flow downwards.
- The surface of a liquid in a container stays level when the container is tilted.
- The shape can change depending on the container it is in.
- The volume does not change.

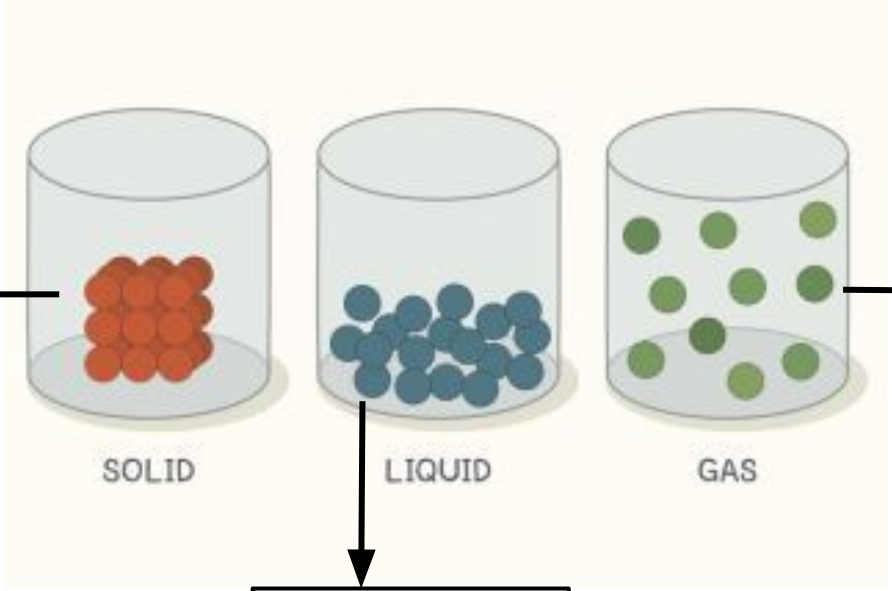
Gases

- They are all around us; most gases are invisible.
- Air is made of a mixture of different gases.
- A gas in a container completely fills the container and take the same shape and volume as the container.
- A gas that is not in a container spreads out further and further- the volume keeps increasing.



A main difference is volume and shape

The shape and volume of a solid does not change.



Gas changes to the volume and shape of the container.

The shape changes but the volume does not.

Depending on how confident you feel, choose one of the activities below:

Red

Decide whether each item is a solid, liquid or gas:

 Apple	
 Orange juice	
 Oxygen in the air (this is invisible)	
 Chair	
 Rain	

Yellow

Decide whether each description is a solid, liquid or gas:

1) Water
2) Does not change shape or volume.
3) Changes volume and shape when in a container.
4) Something I can take hold of.
5) The shape changes but the volume stays the same.
6) Can be cut.

Green

Decide whether each description is a solid, liquid or gas:

1) When in a container, this takes up the same shape as its container; it does not change volume.

2) This can be invisible and is in the air around us.

3) This is inside a bottle. When I tilt the bottle, the surface stays level.

4) When in a container, this does not change its shape or volume.

5) When in a container, this takes on the same volume and shape as the container.

6) The volume of my container is $50ml^3$ and it is in the shape of a heart. When this is in a container, the volume is $40ml^3$ but the shape changes to a heart.