MATTER AND ITS PROPERTIES

What's matter? Read and listen.

Matter is everything that **takes up space.** The children in the photo, their boat, the grass and the trees all take up space, so they are matter. We cannot see air, but it takes up space, so it is also matter.

- Each type of matter is a **substance**. Water, wood and air are all substances.
- Light, sound or our thoughts and feelings do not take up space, so they are not matter.



What substance is each pencil holder made of?

A 

B 

C 

Decide. Matter or not? Put the objects in the correct column.

Matter	Not matter

















What are the properties of matter? Read and listen.

Objects are different depending on the substances that they are made of. Colour, shape, size and smell are some of the **properties** of matter:

All objects have two properties in common: mass and volume.

Mass is the amount of matter in an object. Heavy objects have greater mass than light objects. We measure mass in **kilograms.**

Some things occupy lot of space, but others occupy very little space. This is their **volume**. We measure volume in **litres.**



These scales measure mass.
The apple has a *mass* of 167 grams.



This measuring jug measures *volume*.
It contains half a litre of orange juice.

Look at these presentations:

Measuring the mass of an object





Measuring the volume of an object





Click on the objects that have mass and volume.



sound



tree



feather



pencil



heat



elephant