Science – Materials – Year 2 – Spring 1

Vocabulary Top Ten:

experiment	a scientific test to prove or discover something
invent	create or design something that has not existed before
liquid	pours easily, always takes the shape of the container it is in
man-made	something that has been made by people or machines
material	something that can be used to make something else
natural	something that has not been made by people or machines
properties	what something is like
purpose	the use of a material
recycle	use the object again for a different purpose
solid	keeps its shape unless we cut or shape it ourselves

Charles Macintosh

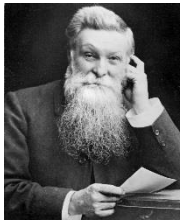
Charles Macintosh invented the first waterproof fabric. He was a scientist who experimented with ways to use chemicals to make new materials.





Born: 1766 in Scotland
His invention was so important that raincoats are named after him, raincoats are called Macintoshes or Macs.

John Boyd Dunlop



John Boyd Dunlop invented the pneumatic tyre. Pneumatic means filled with air. He found that solid wood, rubber or iron wheels made cycling difficult. He experimented by using an inflatable rubber tyre on his son's tricycle.



Born: 1840 in Scotland
Today Dunlop is a brand of tyres sold all over the world.

Key Facts:

Materials have different properties.

Properties

- flexible
- hard
- opaque (not see through)
- rough
- smooth
- soft
- transparent (see through)
- waterproof

Some materials are better for some purposes than others. Waterproof material would be better for a rain coat than wood.

You can change the shape of some materials by squashing, bending, twisting and stretching.

Recycling



Recycling means using things that have already been used, to make new things. Some materials are easier to recycle than others.

Glass is 100% recyclable and can be recycled over and over again. Aluminium drinks cans (metal) are the world's most recycled packaging container.



There are lots of different types of plastic and some are harder to recycle than others. Black plastic is very hard to recycle because its colour makes it difficult to sort at recycling facilities.

plastic water bottle



properties:

hard

waterproof

transparent

wooden logs



properties:

hard

rough

opaque