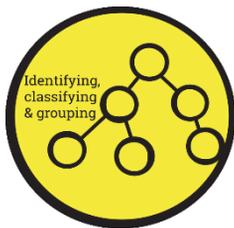


Working Scientifically Skills



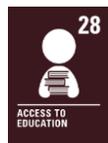
WHO?

Charles Mackintosh



F2
Materials

Chemistry



Vocabulary			
object	An object can be used e.g. a chair, door, table.	rough	If something is rough, it feels and looks uneven or bumpy.
material	Materials are what an object is made from.	smooth	Smooth objects have no lumps or bumps.
hard	Something hard is not easily broken or bent.	bendy	Bendy materials can be bent easily into a curved or folded shape.
soft	If something is soft, it is easy to cut, fold or change the shape of.	waterproof	If something is waterproof, it keeps water out and keeps things dry.
shiny	Shiny materials reflect light easily.	dull	A dull object reflect light. It doesn't look bright or shiny.

WHAT?

An **object** can be used, whereas a **material** is what something is made of. A **toy** is an **object**, which can be made of **plastic** (material).




A **powder** is a **material**. Sand, flour and sugar are powders. Talcum powder is **useful** because it helps dry damp skin.




Wood, plastic, glass, metal, water and rock are **materials**.




Bubble wrap, towelling and cotton wool would be a **good protector** when sending a parcel because they are **soft**.




Paper is **bendy**. Wood can be **rough** or **smooth** but is **hard** to **touch**. Metal is hard to touch but it is **rigid**. A window is made of **glass** and is **transparent** so you can see through it.



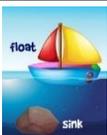

Plastic would be a **good** material for an **umbrella** as it is **waterproof, strong** and **flexible**.




Some **materials** can be classified as **liquids**. Liquids have different **thicknesses**, some are **transparent** and some are **colourful**. Treacle is hard to **stir** whereas water is easy to stir.




If an object has a **lower density** than **water**, it will **float**. If an object has a **higher density** than **water**, it will **sink**.




Different objects can be made from the **same material**. Spoons, cups and slides can all be made from **plastic**. A woolly hat and a rag doll can both be made using **fur fabric**.




In **still** water, the raisin **sinks** because the raisin is **denser** than water. In the **fizzy** water, the bubbles attach to the raisin, helping it **float** to the surface. When the **bubble pops**, the raisin **sinks** back down.