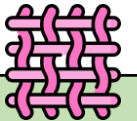
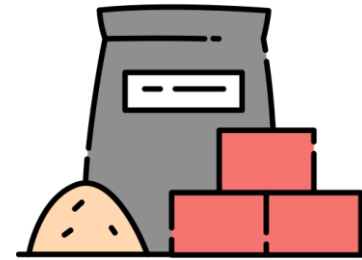


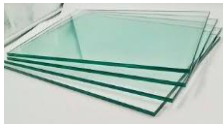


Materials KNOWLEDGE ORGANISER

Autumn Term



ESSENTIAL MATERIALS VOCABULARY	
material	The matter something is made from.
properties	The qualities and features of an item, for example fabrics can be soft, smooth and absorbent.
suitable	Being right or correct for a particular situation or person
purpose	The reason for which something is done or created
squash	To crush or squeeze something so that it becomes out of shape
bend	To shape or force something that is straight into a curve or angle
twist	To form a material into a bent, curling or distorted shape
stretch	A material that is soft or elastic is made longer or wider, without tearing or breaking
Hard	Hardness is a measure of how hard a material is. Hard things resist pressure.
Soft	easy to bend or to shape; not firm or hard
Wood	a hard substance that forms the branches and trunks of trees and can be used as a building material, for making things, or as a fuel
plastic	A plastic is a material that can change its shape, so many things can be made of plastic. It can be made from chemicals that come from oil, natural gas or coal.


cardboard	plastic	glass
Strong, light, stiff	Waterproof, strong, can be flexible or stiff, smooth or rough	Waterproof, transparent, hard, smooth
		

Why are certain materials chosen for a job?

We can use what we know about the properties of a material to decide if they would be chosen to make an object - e.g. a transparent material is needed to make a window if you want to be able to see through it.

Charles Macintosh

Charles Macintosh invented the first waterproof fabric by painting a dissolved rubber solution onto cloth.



MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY	
absorbent	Different types of materials that soak up liquid. The sponge was absorbent .
Waterproof	Something that keeps water out is waterproof . Water cannot pass through the material.
shiny	A material can be shiny in appearance
dull	A material can be dull in appearance

Are objects always made of one material?

Some objects can be made from one material - e.g. a spoon can be made from wood, plastic or metal.
Some objects can be made from more than one material - e.g. a window has glass to see through and a wooden or plastic frame.

Properties of Materials		
<ul style="list-style-type: none"> Rough soft stretchy Hard Smooth Opaque 	<ul style="list-style-type: none"> Stiff shiny dull bendy not bendy transparent 	<ul style="list-style-type: none"> absorbent Not absorbent Waterproof Not waterproof

Types of Materials		
<ul style="list-style-type: none"> Wood Metal Plastic paper 	<ul style="list-style-type: none"> Glass cardboard Brick 	<ul style="list-style-type: none"> Rock Fabric
Changes		
<ul style="list-style-type: none"> Squash Squashing Stretch stretching 	<ul style="list-style-type: none"> Bend bending 	<ul style="list-style-type: none"> Twist twisting