



★ AFL – Flashback to Year 1

What can we remember?

- ✓ Identify and compare common materials.
- ✓ Describe a range of material properties.
- ✓ Group materials using simple criteria.
- ✓ Explain why a material has been chosen for a particular object.
- ✓ Use scientific vocabulary to justify simple material choices.

KEY VOCABULARY

material  What something is made from.	property  A way to describe a material.	waterproof  Does not let water in.	absorbent  Soaks up liquids.	transparent  Lets light pass through. You can see through it.	opaque  Does not let light pass through. You cannot see through it.		
flexible  Can be bent without breaking.	rigid  Cannot be bent easily.	strong  Does not break or snap easily.	weak  Breaks or snaps easily.	magnetic  Can be attracted to a magnet.	suitable  Good for a particular job.	compare  Look at similarities and differences.	classify  Group things with similar properties.

🧪 SUPER SCIENCE! – Thinking like scientists

Comparing materials Materials with the same property can be used for similar jobs.  Wood and metal are both strong.  Plastic and fabric can be waterproof.		Choosing the best material for an object We choose materials based on their properties.  Metal is good for conducting heat.  Fabric is good for keeping us dry.		Why some objects are made from more than one material Different materials are combined to make the best object.  A helmet has a hard outer shell for protection and soft padding for comfort.		
New properties we can describe						
rough  Has an uneven surface.	smooth  Has an even surface.	hard  Not easily marked or scratched.	soft  Easy to cut, press or change shape.	stretchy  Can be stretched and return to shape.	shiny  Reflects light.	dull  Does not reflect much light.
What is it made from? Match each object to the material it is mainly made from.      wood metal plastic glass fabric			Sorting Materials Choose the best criteria to sort these materials. There might be more than one answer!        			
Sorting using different criteria We can group materials in different ways. By source Natural  Man-made  By property Waterproof  Not waterproof 						

CURIOSITY



What new material would you invent to solve a problem?

MAKE CONNECTIONS – TALK ABOUT IT!

Sharing experiences helps us better understand the materials around us and allows us to know more and remember more!

- Why are windows made from glass instead of wood?
- Why are saucepan handles often made from plastic?
- Which materials are used in your bicycle?
- Why do we use different materials for a building's frame and its windows?
- Why do you think some toys are made from soft materials?



HOME LEARNING IDEAS

- ★ Go on a material hunt around your home.
- ★ Find five objects made from more than one material.
- ★ Compare two materials and explain which is better for a job.
- ★ Test which materials are waterproof and which are absorbent.

ASK ME...

- Why is a waterproof coat made from fabric and not paper?
- Which material would make the strongest bridge?
- Can one object be made from different materials? Why?
- Why is glass transparent?
- Which material is best for a spoon? Why?

MY CHECKLIST

- Can I...
- ☐ compare materials?
 - ☐ describe their properties?
 - ☐ explain why materials are chosen?
 - ☐ group materials?
 - ☐ use scientific vocabulary?

I CAN'T DO IT...YET!

I can't do it...YET!
 But I will keep trying!
 YET means I am learning, growing and getting better.
 Mistakes help my brain grow!
 I believe in myself!



WELL DONE!

