

## 1 Match the words to the definitions.

	strong			
flammable				
transparent				
flexible				
١	waterproof			

	you can bend it				
	you can burn it				
water can't go through it					
у	ou can see through it				
yo	ou can't break it easily				

### 2 Tick the chart.

	strong	flammable	transparent	flexible	waterproof
paper		✓		~	
wood					
glass					
leather					
cotton					
metal					

## 3 Complete the sentences.

- 1 Leather is <u>more waterproof</u> than cotton. (waterproof)
- 2 Wood is \_\_\_\_\_\_ than paper. (strong)
- 3 Glass is \_\_\_\_\_\_ than paper. (transparent)
- 4 Paper is \_\_\_\_\_\_ than metal. (flexible)
- 5 Cotton is \_\_\_\_\_ than paper. (strong)
- 6 Leather is \_\_\_\_\_ than wood. (flexible)

## 4 Answer the questions.

flexible transparent strong

- 1 Why do we make windows from glass? Because it is \_\_\_\_\_.
- **3** Why do we make chairs from wood? Because it is \_\_\_\_\_
- 2 Why do we make shoes from leather? Because it is \_\_\_\_\_

FIG A ROTATION

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# **TEACHER'S NOTES**



## Subject: Science

#### **Properties of materials**

#### **Objective:** Properties of materials

**Vocabulary:** *paper, wool, glass, leather, cotton, metal, strong, flammable, transparent, flexible, waterproof* 

#### Introduction

In order to assess which materials are suitable for different man-made objects, it is important to be aware of the properties of the materials. The properties chosen for study in this worksheet are among the easiest to demonstrate.

#### Warm up

- Help pupils reflect on the selection of materials for different objects. Ask: *Can you make a table from paper? Why not?*
- Repeat with different objects, for example: *Can you make a shirt from glass?* etc.

#### Activity 1

- Read the list of properties out loud.
- Pupils match the adjectives to the definitions.
- Ask pupils to read the adjectives with their definitions out loud.

Answer key strong – you can't break it easily; flammable – you can burn it; transparent – you can see though it; flexible – you can bend it; waterproof – water can't go through it

#### Activity 2

- Ask questions about different materials and properties: *Is metal transparent? Is metal strong?* etc.
- Pupils complete the table.
- Ask volunteers to summarise the table. S1: *Paper is flexible and flammable.*

Answer key paper: flexible, flammable; wood: strong, flammable; glass: transparent, waterproof; leather: strong, flexible; cotton: strong, flammable, flexible; metal: strong, waterproof

#### Activity 3

- Compare the materials. T: *Is cotton more flexible than wood?* etc.
- Pupils complete the sentences.
- Ask pupils to read the sentences out loud.

**Answer key** 1-more waterproof; 2-stronger; 3-more transparent; 4-more flexible; 5-stronger; 6-more flexible

#### Activity 4

- Pupils complete the sentences.
- Ask pupils to read the sentences out loud.

Answer key 1-transparent; 2-flexible; 3-strong

#### Project ideas

- In pairs, pupils choose a material and list the objects in the classroom made from that material.
- Pupils choose an everyday object and list the materials. They analyse why the materials used are appropriate.

