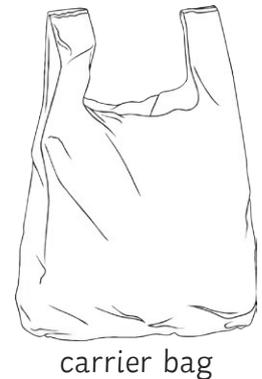
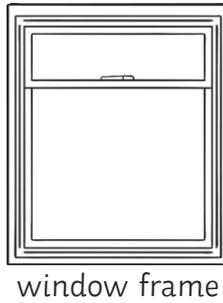
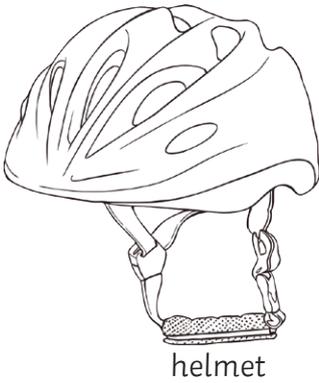
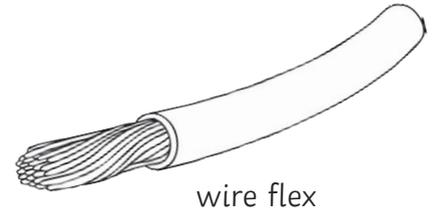
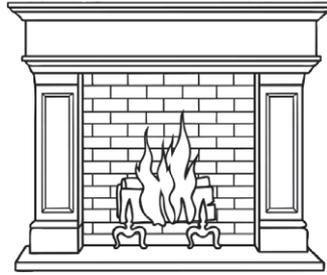
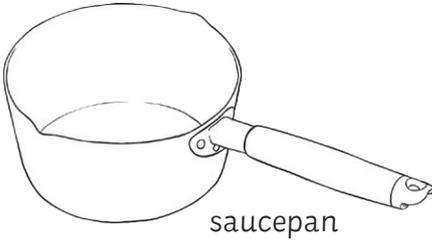


Name:	Class:	Date given:
		Date due in:

# Materials

1. Circle all the products below that could be made from a polymer. [2]



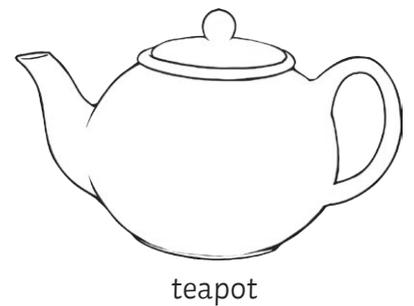
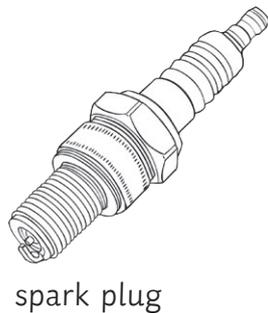
2. Describe the properties of polymers that make them useful for the products you chose in Q1. [3]

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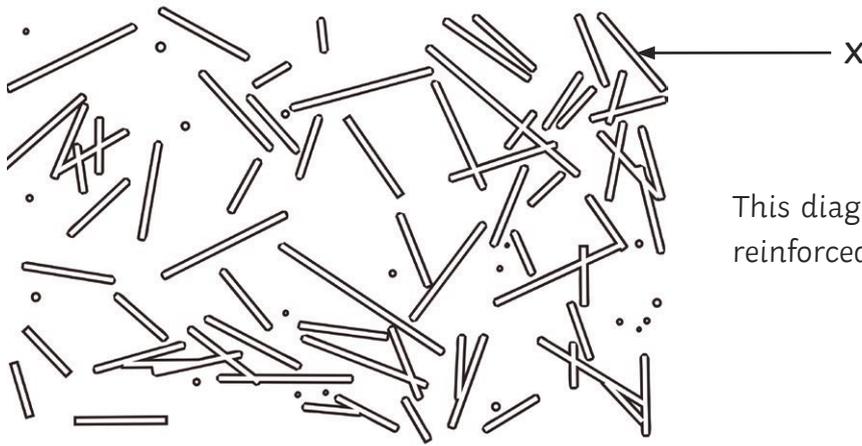
3. What material are all these items made from? Circle one answer from the box below. [1]



polymer	ceramic	composite
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4. What is a composite material? [1]

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This diagram represents GRP (glass reinforced plastic), also called fibreglass.

5a. What do the parts in the diagram labelled X represent? [1]

5b. Match the property to the material. [1]

glass

low density

plastic

strong

5c. Concrete is another example of a composite material. Concrete and GRP have different uses. Match each use below to the suitable composite by completing the table. [4]

skis      surfboard      skate park      roof covering      airport      shopping centre

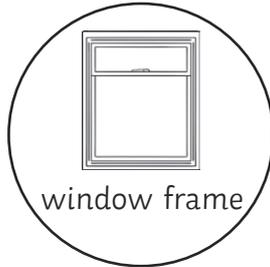
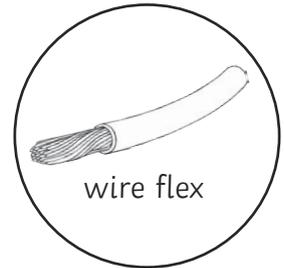
Concrete	GRP

**Learning Outcomes** (tick if achieved)

Q1	Identify products made from polymers.	
Q2	I can describe useful properties of polymers.	
Q3	I can identify uses of ceramic.	
Q4	I can describe what a composite is.	
Q5	I can describe the uses and properties of composite materials.	

# Materials Answers

1. Circle all the products below that could be made from a polymer. [2]



2. Describe the properties of polymers that make them useful for the products you chose in Q1. [3]

**Act as insulators (thermal / electrical), flexible, low density, strong, light, easily moulded.**

3. What material are all these items made from? Circle one answer from the box below. [1]



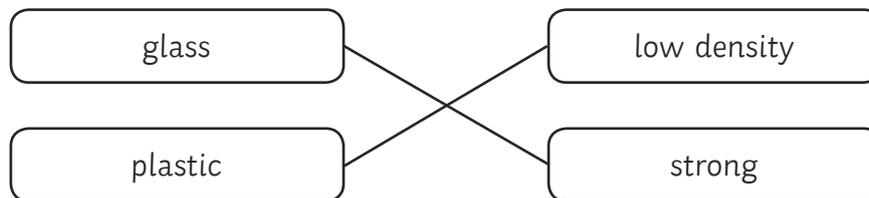
4. What is a composite material? [1]

**A material in which two or more different materials are combined.**

5a. What do the parts in the diagram labelled X represent? [1]

**Glass fibres**

5b. Match the property to the material. [1]



5c. Concrete is another example of a composite material. Concrete and GRP have different uses. Match each use below to the suitable composite by completing the table. [4]

Concrete			GRP		
skate park	airport	shopping centre	skis	surfboard	roof covering

**1 mark each for 1 correct answer in each column**

**2 marks each for 2-3 correct answers in each column**