Separate Science - Chemistry - Key Stage 4

C10 Using Resources

Glass, ceramics and composites



Independent task - Recall questions

Answer the following questions:

- 1. What are the raw materials used to make soda-lime glass?
- 2. Give 3 properties of soda-lime glass
- 3. How are the particles arranged in soda-lime glass?
- 4. What are the raw materials used to make borosilicate glass?
- 5. Why is ovenware made out of borosilicate glass instead of soda-lime glass?



Independent task - Recall questions

Answer the following questions:

- 1. What is a composite?
- 2. Give 3 examples of composite materials.
- 3. How are ceramics made?
- 4. Give 3 examples of clay ceramic products.
- 5. What are 3 properties of clay ceramics?



Independent task - Comparing different materials

	Aluminium	Steel	Timber
Density	3g/cm³	8g/cm ³	0.5g/cm ³
Relative compressive and tensile strength	25	10	2
Moisture resistance	Good	Rusts unless protected	Absorbs water unless protected

- 1. Compare the densities of the 3 materials.
- 2. Explain why aluminium is used in window frames instead of timber.
- 3. Explain why aluminium is a better choice in aeroplanes than steel.

