## Chemguide - questions

1. What is meant by the following terms?

a) Electrolysis

b) Electrolyte

## **ELECTROLYSING MOLTEN COMPOUNDS**

	c) Anode
	d) Cation
2.	In the electrolysis of molten sodium iodide using carbon electrodes, nothing happens until the sodium iodide is molten, but then you see a purple gas being given off from one electrode and orange flashes at the other one, and a current flows around the external circuit.
	a) What is the purple gas produced at one of the electrodes?
	b) Which electrode is it produced at?
	c) Write an equation for its formation.
	d) Is this oxidation or reduction?
	e) Explain the orange flashes at the other electrode.
	f) Write the equation for the initial reaction happening at this electrode.
	g) Why does no current flow while the sodium iodide is solid.
	h) Explain why the discharge of ions allows current to flow around the external circuit.