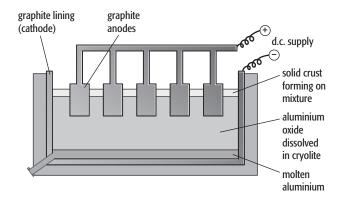
## Worksheet 9.2

## The extraction of aluminium

The diagram shows the electrolysis of alumina (aluminium oxide) purified from bauxite.



1	a	What is the formula for aluminium oxide?
	b	What ions are present in aluminium oxide?
	c	What is the purpose of the cryolite in the process?
2	W	rite down half-equations for the processes occurring during electrolysis at:
	a	the anode:
	b	the cathode:
3	Co	omplete the two statements.
	a	Oxidation ( of electrons) occurs at the
	b	Reduction ( of electrons) occurs at the
4	Th	ne graphite anodes have to be replaced regularly. Why is this?
	••••	
_		lunio is an anno de anno anno a Cartino sa anno al aluminium shore sa anterest anno aluminium 2
5		hy is it so much more cost-effective to recycle aluminium than to extract new aluminium?