

- The relative atomic mass of magnesium is reported as 24.3. Show how this figure is calculated given the natural abundances of the following isotopes of magnesium:  $^{24}\text{Mg}$  (79.0 %);  $^{25}\text{Mg}$  (10.0 %);  $^{26}\text{Mg}$  (11.0 %).

**Marks**  
**2**

- With examples, briefly explain what allotropes are.

**2**

- Complete the following table.

**2**

Formula	Name
$\text{Na}_2\text{CO}_3$	
	iron(III) oxide
$\text{PCl}_3$	
	ammonia