GCSE Chemistry - Chemistry - Key Stage 4

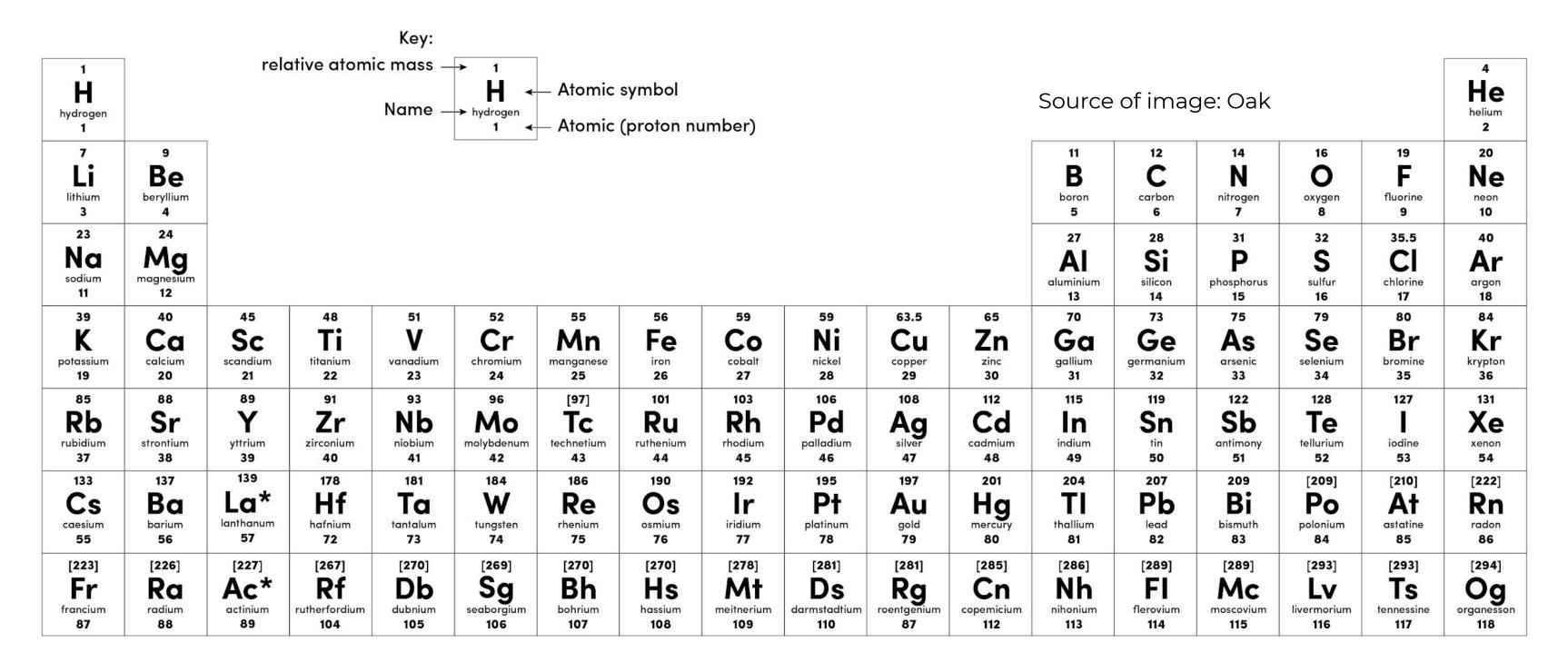
Organic chemistry

### Properties and combustion of alcohols

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#### **Periodic Table of Elements**





Property	Test	Observation
Solubility	Does the alcohol dissolve when added to water?	
рН	What is the pH of the alcohols when tested with universal indicator?	
Reaction with sodium	Reaction with sodium metal	
Flammability	Did the alcohol set alight easily when a lit splint was held near it	



Method step	Reason
Use a measuring cylinder to measure out 100cm <sup>3</sup> cold water into the conical flask	
Take the starting temperature of the water	
Measure the mass of the spirit burner with methanol in, including the cap	

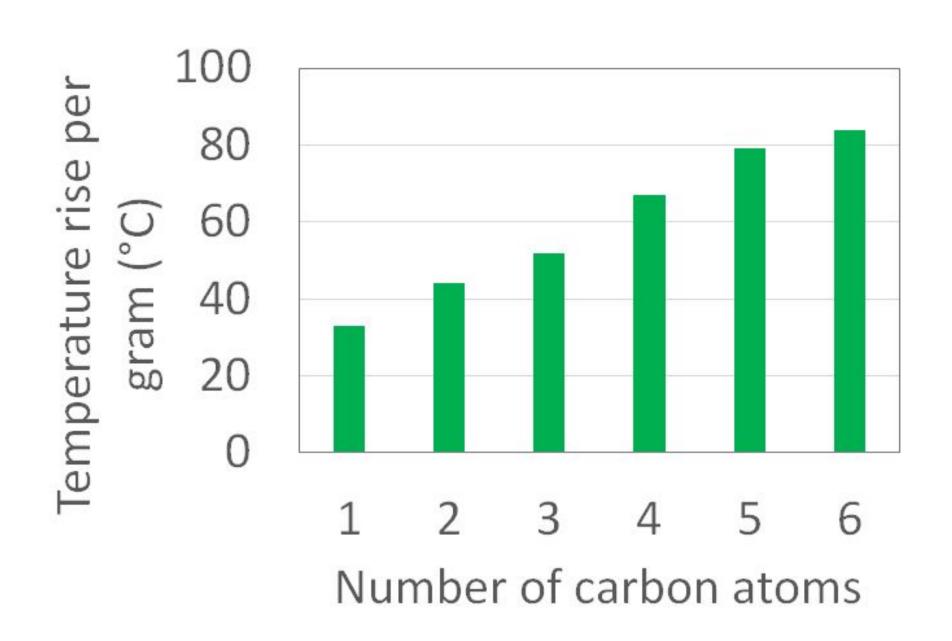


Method step	Reason
Place a spirit burner underneath the flask and light the wick	
When the temperature has increased by 10°C, extinguish the burner using the cap	



Method step	Reason
Reweigh the spirit burner and calculate the mass lost	
Repeat all steps using a different alcohol in the burner	





#### Describe the results:

As the number of carbon atoms \_\_\_\_\_, the temperature rise per gram \_\_\_\_\_. This shows the alcohols with \_\_\_\_ energy releases \_\_\_\_energy.

