GCSE Chemistry - Chemistry - Key Stage 4

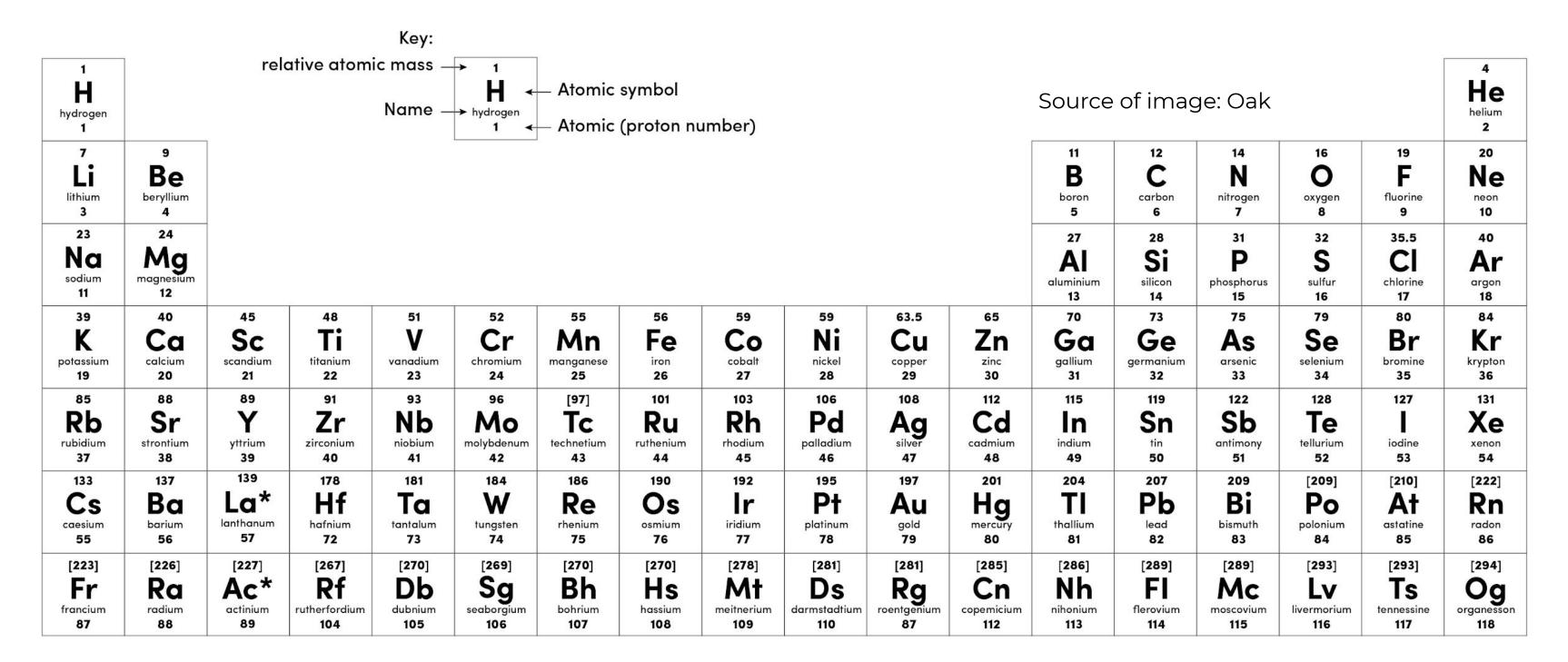
Organic chemistry

Review 2

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Periodic Table of Elements





- 1. Draw a dot-cross diagram from methane.
- 2. Describe the properties of methane.
- 3. Explain why methane has a low boiling point and cannot conduct electricity.
- 4. Explain why methane cannot conduct electricity.



Name	Molecular formula	Relative molecular mass
	C ₄ H ₈	
	C ₄ H ₁₀	
	C ₂ H ₅ OH	
	CH ₃ COOH	



- 1. What units are used for bond energies?
- 1. True or false: Bond breaking happens in the products.
- 1. What equation is used to calculate the total energy change in a reaction?
- 1. True or false: Exothermic reactions will have a negative overall energy change.



Calculate the overall energy change for this reaction.

0=0

$$C_2H_4 + 3O_2 \longrightarrow 2CO_2 + 2H_2O$$

H H O=O O=C=O H O+ H H
O=O O=C=O



$$C-H = 413$$

$$O=O=498$$

$$C=O = 805$$

$$H-O = 463$$

$$C = C = 614$$

