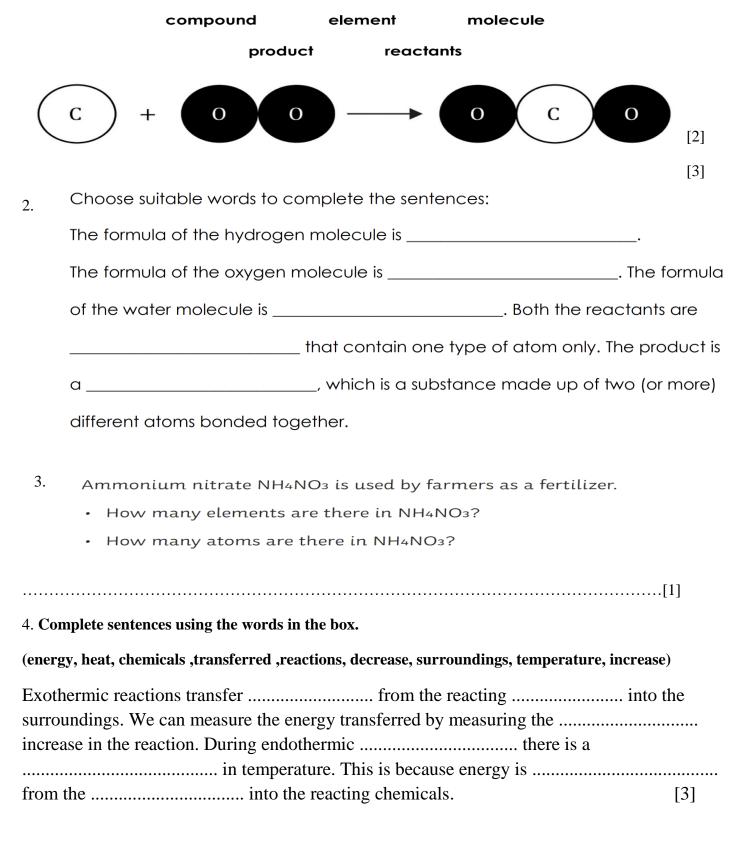


Name:	
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Total =25

1.

This diagram represents a chemical equation. Label the diagram using the words below.





$\frac{1}{5}$

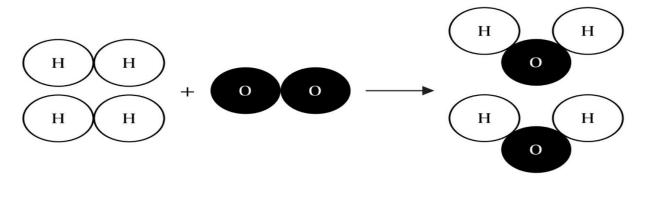
Complete the equation for combustion. fuel + oxygen → _____+ energy Decomposition Draw a ring around the reactions that show decomposition: iron + oxygen → iron oxide calcium carbonate → calcium oxide + carbon dioxide sodium + iodine → sodium iodide hydrogen peroxide → water + oxygen 6. What does the formula H₂0 mean in terms of the number and type of atoms? Complete the sentences.

There are	atoms of	
and	atom of	in one

molecule of water.

7.

Write a word equation for the chemical reaction shown in the diagram.





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8. What is the general equation of a metal reacting with oxygen?		
[1]		
9. Write the word equation for Nitrogen and Hydrogen.		
[1]		
10. Balance the above given equation use the state symbols.		
[1]		
11. Give one example of combination reaction. [1]		
[1]		
12. Give one example of decomposition reaction.		
[1]		
13. Give one example of single displacement reaction.		
[1]		
14. Give one example of double displacement reaction.		
[1]		

15. Balance the equations shown below. Remember that you may only write numbers in front of any of the formulae but you may not change any formulae. Some of the equations may already be balanced. [4]

- $1 H_2 + Cl_2 \quad \rightarrow \qquad HCl$
- $2 \ Zn + O_2 \quad \longrightarrow \quad ZnO$
- $3 \ Cl_2 + Al \quad \rightarrow \qquad AlCl_3$
- $4 \ Na + O_2 \quad \rightarrow \quad Na_2O$

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- Total =25
- $5 Mg + O_2 \rightarrow MgO$
- $6 \ Ca+HCl \quad \rightarrow \quad CaCl_2+H_2$
- $7 \ Fe_2O_3 + Al \ \rightarrow \ Fe + \ Al_2O_3$