**BLOG WORKSHEET**

**CHEMISTRY CLASS 10**

Teacher Name: Uzma Amer Class: 10 Chemistry Date: 13th Sep’19

Q.1. choose the best answers: Max. Marks: 10

1. Which of the following is an endothermic reaction?

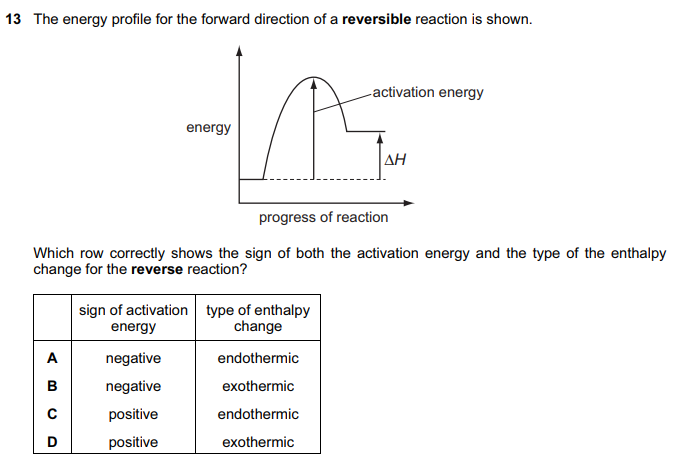
A the combustion of ethanol in air

B the formation of a carbohydrate and oxygen from carbon dioxide and water

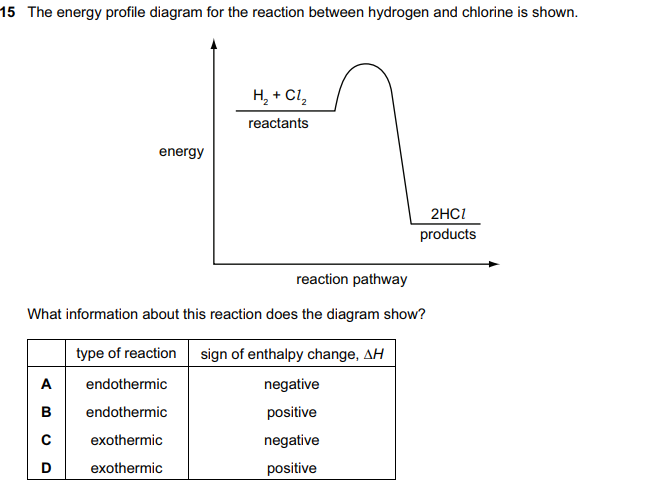
C the oxidation of carbon to carbon dioxide

D the reaction between hydrogen and oxygen

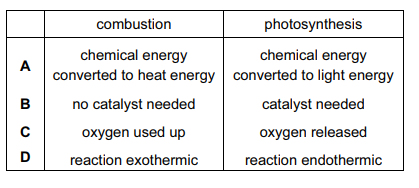
1. The energy profile diagram for the forward direction of a reversible reaction is shown:



1. The energy profile diagram for the reaction between hydrogen and chlorine is shown.



1. Which pair of statements about the combustion of a carbohydrate and its formation by photosynthesis is not correct?



1. The combustion of methane is exothermic. The equation is given below.

CH4 + 2O2 → CO2 + 2H2O

What can be deduced from the fact that the reaction is exothermic?

A Fewer bonds are broken than are made.

B Less energy is involved in breaking bonds than is involved in making bonds.

C More bonds are broken than are made.

D More energy is involved in breaking bonds than is involved in making bonds

1. Measure of average kinetic energy of molecules is
2. temperature
3. energy
4. internal energy
5. enthalpy
6. Which reactions are the examples of exothermic reaction only.
7. Burning fossil fuels
8. Respiration
9. Photosynthesis
10. Neutralization
11. I only
12. I,II& III only
13. I,II &IV only
14. All of above
15. Change in energy between a chemical reaction and surroundings at constant temperature is called
16. enthalpy change
17. enthalpy
18. enthalpy profile
19. dynamic enthalpy
20. Which one of the following statements best describes the enthalpy change of a reaction?
21. The energy released when chemical bonds are formed during a chemical reaction
22. The difference between the energy released by bond formation and the energy consumed by bond cleavage during a chemical reaction
23. The increase in disorder of the system as a reaction proceeds
24. The energy consumed when chemical bonds are broken during a chemical reaction
25. . Heat transferred at constant pressure \_\_\_\_\_ the enthalpy of a system.
26. Decreases
27. Increases
28. First decrease than increase
29. First increase then decrease