





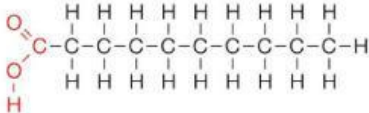
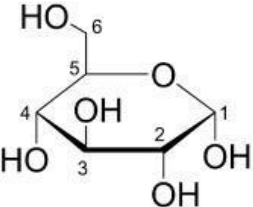
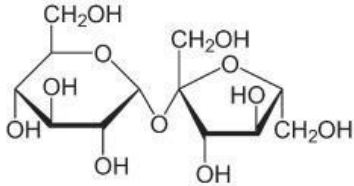
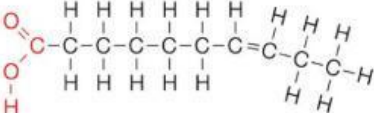
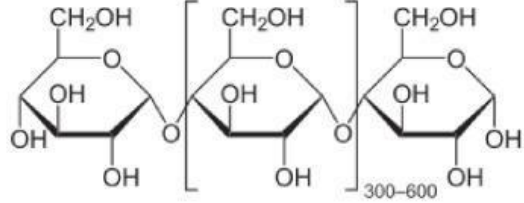


I. **Drag** each term and **drop** it to the place it belongs.

 _____	 _____	 _____
 _____	 _____	 _____

great carbohydrate	good carbohydrate	bad carbohydrate
unhealthy lipid	healthy lipid	protein

II. Use a line to join the formula with the correct term

	A. disaccharide
	B. monosaccharide
	C. polysaccharide
	D. saturated lipid
	E. unsaturated lipid

III. Classify the following products as acid, base, or neutral.



pH = 10.5



pH = 3.75

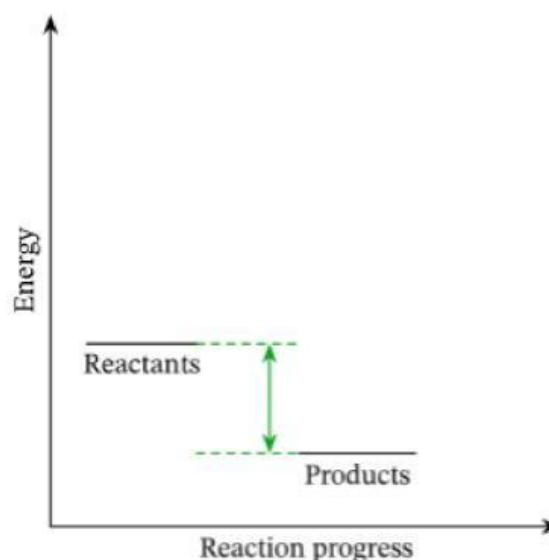
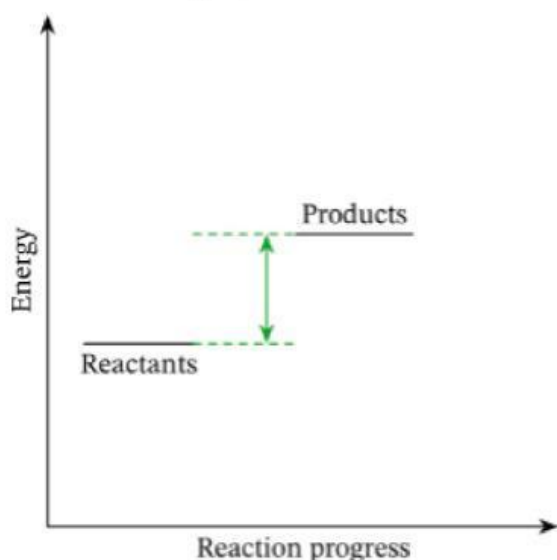


pH = 8.1

IV. Match both columns, writing on the line the letter that shows the correct answer

- | | | |
|-------|--|-------------------------|
| _____ | The most common reaction used in vehicular transportation and to produce electricity. | A) Cellular respiration |
| _____ | The most common reaction used to obtain pure elements and give coating protection. | B) Combustion |
| _____ | The most common reaction used to produce alcoholic beverages and dairy products, such as cheese and yogurt | C) Electrolysis |
| _____ | The reaction present in plants by which they produce their source of energy. | D) Fermentation |
| _____ | This reaction is present in all living things. It uses oxygen and produces CO ₂ . | E) Photosynthesis |

V. Label the graphs as exothermic or endothermic



VI. Classify each reaction as an endothermic or exothermic.



VII. CALCULATE THE $[H^+]$.

pH = 6.45 _____

pH = 3.77 _____

pH = 4.55 _____

VIII. Calculate the pH.

$[H^+] = 2.03 \times 10^{-4} \text{ M}$ _____

$[H^+] = 1.65 \times 10^{-11} \text{ M}$ _____

$[H^+] = 5.56 \times 10^{-8} \text{ M}$ _____

IX. Use the word bank to complete the sentences below. Some words can be used more than once.

ATP	CO ₂	cellular respiration	glucose (C ₆ H ₁₂ O ₆)
H ₂ O		O ₂	photosynthesis

_____ is a reaction that takes place in plants. They use as reactants _____ and _____ and produce _____ and _____.

_____ is a reaction that takes place in living organisms. They use as reactants _____ and _____ and produce _____, _____, and energy as _____.

X. Solve the following problems and write the result on the line, using two decimal places and the correct units.

1) What is the molarity of a solution containing 56 g of sodium chloride in 450 mL?

2) What is the volume of a 2.03 M solution containing 125 g of calcium carbonate?

3) How many grams of aluminum hydroxide are needed to prepare 346 mL of a 1.05 M solution?

4) If you use 30 mL of a 2.3 M solution, how many mL of a 1.05 M solution can be made?
