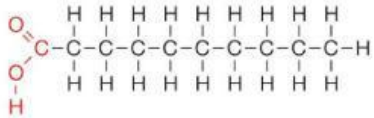
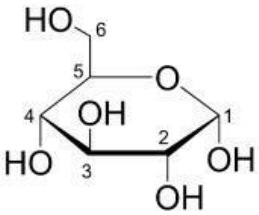
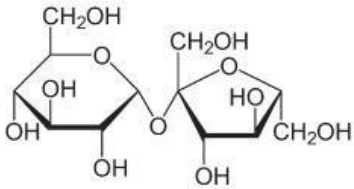
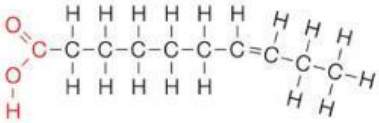
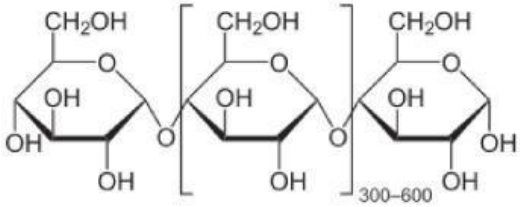
I. **Drag** each term and **drop** it to the place it belongs.

_____	_____	_____
_____	_____	_____

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

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

pH = 10.5 _____

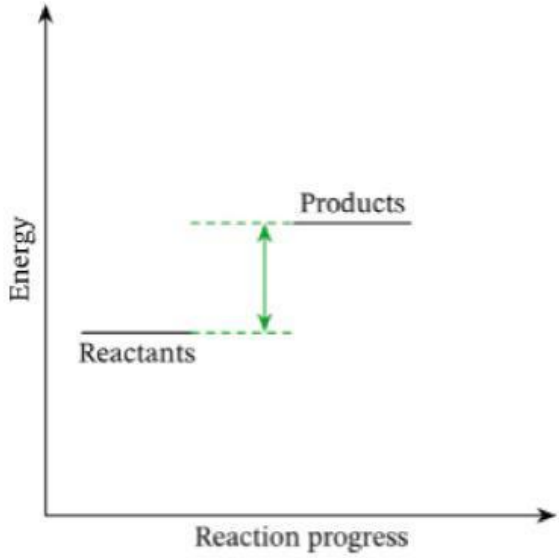
pH = 3.75 _____

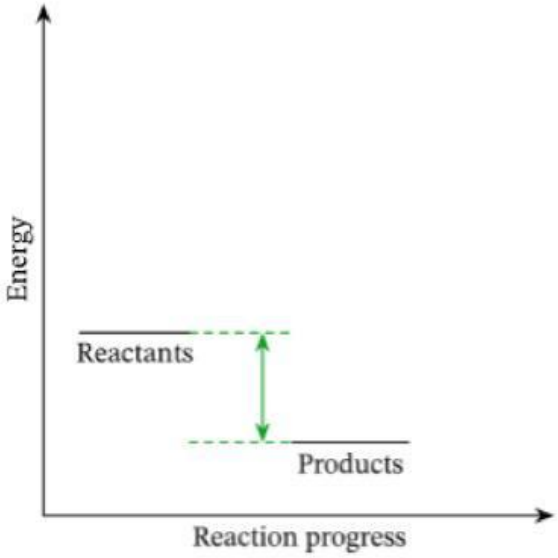
pH = 8.1 _____

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





_____ _____

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VI. Classify each reaction as an endothermic or exothermic.

$H_{2\,(g)} + F_{2\,(g)} \rightarrow 2HF_{\,(g)} + HEAT$ _____

$N_{2\,(g)} + O_{2\,(g)} + HEAT \rightarrow 2NO_{\,(g)}$ _____

$2C_{\,(s)} + H_{2\,(g)} + HEAT \rightarrow C_2H_{2\,(g)}$ _____

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

pH = 6.45 _____

pH = 3.77 _____

pH = 4.55 _____

VIII. Calculate the pH.

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

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

$[H^+] = 5.56 \times 10^{-8}$ 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 ($C_6H_{12}O_6$)
H_2O		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?

_____

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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?

_____

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