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Unit 1: Basic Chemistry For Biology Activity 3: Energy Practice Problems

Vocabulary Practice

 1. Er	nerg	y
2. R	eact	ant
_	_	

_____3. Product

4. Exergonic Reaction
5. Endergonic Reaction

6. Activation Energy

_____7. Catalyst

____8. Enzyme

a. Molecules on the left side of a chemical equation

b. Reactions that take in energy

c. The amount of energy required to begin a reaction

d. The ability to do work or cause change

e. A type of catalyst that is found in living organisms

f. Something a reduces the amount of activation energy

needed

g. Reactions that release energy

h. Molecules on the right side of a chemical equation

Chemical Reactions Practice

9. In the following equation, label the reactants and label the products:

For the following questions, identify if the equation is balanced. Answer "A" for balanced, answer "B" for not balanced.

10.
$$2H_2 + O_2 \rightarrow 2H_2O$$

11. $3Na + 2CI \rightarrow NaCl_2$
12. $2CO + O_2 \rightarrow 2CO_2$

Balance the following equations.

13. ____
$$N_2$$
 + ___ $H_2 \rightarrow$ ___ NH_3

14. ____A
$$g_2O \rightarrow$$
 ____A $g +$ ____O₂

15. The graph to the right represents a reaction that is a. endergonic b. exergonic



