

# Download File PDF Chemical Reactions And Energy Worksheet Answers

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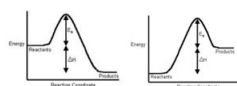
so many fake sites. this is the first one which worked! Many thanks

Name \_\_\_\_\_ Group \_\_\_\_\_  
Date \_\_\_\_\_ List # \_\_\_\_\_

Energy in chemical reactions

1. In an exothermic reaction, is the energy of the products less or greater than that of the reactants?
2. In an endothermic reaction, is the energy of the products less or greater than that of the reactants?
3. Classify the following as exothermic or endothermic reactions:
  - a) 550 kJ is released
  - b) The metabolism of glucose in the body provides energy
  - c) The synthesis of proteins require energy
  - d)  $2\text{S}_8$  is absorbed
4. Classify the following as exothermic or endothermic reactions and give  $\Delta H$  for each:
  - a)  $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O} + 890\text{ kJ}$
  - b)  $\text{Ca(OH)}_2 + 65.3\text{ kJ} \rightarrow \text{CaO} + \text{H}_2\text{O}$
  - c)  $2\text{S} + 3\text{O}_2 \rightarrow 2\text{SO}_3 + 790\text{ kJ}$
  - d)  $\text{N}_2 + \text{O}_2 \rightarrow 90.2\text{ kJ} \rightarrow 2\text{NO}$
5. "Hot packs" used by skiers, climbers, and others for warmth are based on the crystallization of sodium acetate from a highly concentrated solution. What is the sign of  $\Delta H$  for this crystallization? Is the reaction exothermic or endothermic?

6. Identify the following graphs as endothermic or exothermic.



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