

## Energy Changes in Chemical reactions for KSS Science - Worksheet (Answer)

- In an exothermic reaction does the temperature go up or down?  
The temperature will increase
  - In an endothermic reaction does the temperature go up or down?  
The temperature will decrease
  - Name two examples of exothermic reactions.  
Respiration & combustion
  - Name two examples of endothermic reactions.  
Photosynthesis & thermal decomposition
  - Copy the correct answers.  
The words between the pairs of the reactions opposite each other indicate that the  
is an exothermic reaction. Therefore, the words are used between the pairs  
of the opposite reactions. This is an endothermic reaction.
  - Use the table to answer the question.
- | Reaction | Starting temperature /°C | Final temperature /°C |
|----------|--------------------------|-----------------------|
| (a)      | 20                       | 30                    |
| (b)      | 20                       | 10                    |
| (c)      | 20                       | 20                    |
- Which reaction was exothermic? endothermic? exothermic, reaction heat was  
released.  
a. Exothermic, temperature increases.  
b. Endothermic, temperature decreases.  
c. Exothermic, temperature increases.
  - Which reaction has the largest energy change?  
a. Largest temperature change
  - In an exothermic reaction, is enthalpy change positive or negative?  
negative
  - In an endothermic reaction, is enthalpy change positive or negative?  
positive
  - When hydrochloric acid reacts with ammonium hydroxide to produce the  
temperature goes up  
 $\text{HCl} + \text{NH}_4\text{OH} \rightarrow \text{NH}_4\text{Cl} + \text{H}_2\text{O}$   
up = exothermic  
Complete the energy profile diagram and state whether the reaction is exothermic  
or endothermic, explain your answer.

# Energy And Chemical Change Answers

**Amar Bhutani**



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**The Technical Gazette of New South Wales**, 1915

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this example shows how to model a digital phase locked loop using which mixed signal blockset

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this example shows how to model a digital phase locked loop using the mixed signal blockset in a digital phase locked loop phase detection is performed by a time to digital converter tdc loop filtering is performed by a digital filter and the oscillator is a digitally controlled oscillator dco this example demonstrates a behavioral

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this example shows how to use simulink design optimization to tune an all pass filter of a phase lock loop the filter includes a second order low pass filter and a feedthrough gain the feedthrough gain and the second order filter coefficients are tuned to apply a steady state input to the voltage controlled oscillator vco

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