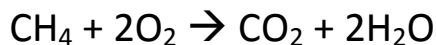


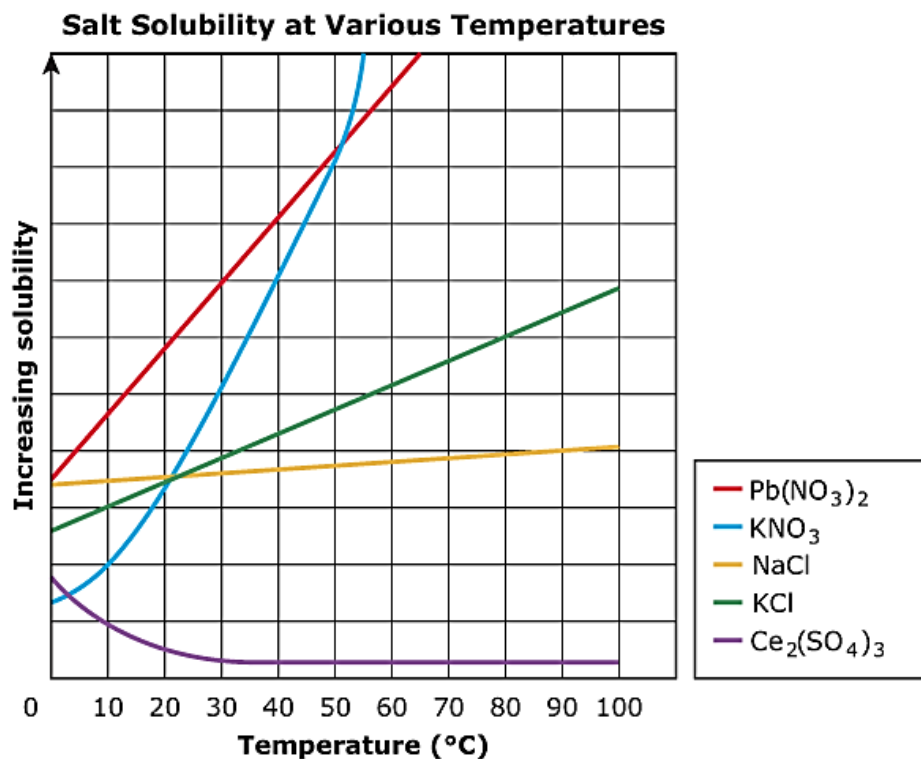
GED Science 2014

When methane burns, it combines with oxygen to form carbon dioxide and water. This reaction releases energy. The balanced chemical equation representing this process is shown below:



1. Which statement about this process is true?
 - a. When one unit of methane is consumed, one unit of water is produced
 - b. When one unit of oxygen is consumed, two units of water are produced
 - c. When one unit of oxygen is consumed, two units of carbon dioxide are produced
 - d. When one unit of methane is consumed, one unit of carbon dioxide is produced

A scientist collects data on the solubility of different salts and different temperatures. The results are shown in the graph.



2. Which conclusion is supported by the data in the graph?
 - a. Solubility always increases as temperature increases
 - b. At 40°C, KCl has the highest solubility of the salts in the table
 - c. The rate of change in the solubility of KNO₃ changes as temperature increases
 - d. The solubility of NaCl does not increase with increasing temperatures above 80°C