**Lab: Classifying Mystery Solids**

In this lab you will design an experiment to observe and analyze the physical properties of different unknown substances in order to determine which class of solids they belong to.

**Your Lab report must include the following Total 30 marks**

1. Title
2. Background (4 marks)
   * Identify the different types of solids , describe their properties, and explain how the structure of the solid relates to its properties

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| **Title** |  |
| **Background** | **/5** |
| **Purpose** | **/1** |
| **Materials** | **/2** |
| **Procedure** | **/5** |
| **Observations** | **/5** |
| **Discussion** | **/7** |
| **Classification of Unknowns** | **/5** |
| **Total:** | **/30** |

* + Identify which properties will be helpful for classifying the solids in the lab

1. Purpose (1 mark)
2. Materials (2 marks)
3. Procedure – numbered steps (5 marks)
4. Observations – in a labelled table (5 marks)
5. Discussion (7 marks)

* Based on your observations classify the solids.
* Explain each classification in detail. (5 marks - 1 mark each)
* Discuss the quality of your evidence and how certain you are about you classification (1 mark)
* Suggest improvement**s** to your procedure (1 mark)

1. Conclusion - classification Summary (5 marks)