Lab # 3: Predicting Density of Different Substances

Using the Scientific Method your group will find the answer to the following question: ***Which substances will have a density greater than water and which substances will have a density less than water.***

Materials Needed:

Density Blocks set:

Oak Block Brass Block Contain full of water

Pine Block PVC Block

Acrylic Block Polypropylene Block

Aluminum Block

Copper Block

Steel Block

Purpose: (state the problem or question here) 1 mark

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Hypothesis: 9 marks

Here you need to predict the following things:

1) Which blocks will sink and which will float when placed in the water.

2) The order of the blocks from highest to lowest density.

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| **Block** | **Prediction****(sink or float)** | **Predicted Density Order****(#1-lowest, #9-highest)** |
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Procedure:

1. Test the blocks one at a time to see whether they sink or float.
2. Record your findings.
3. Based on your findings, you should be able to tell me whether the density of each block is greater or less than water.

Data:

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| **Block** | **Sink or Float** | **Density is greater or less than water** |
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|  |  | 18 marks |

Analysis: 5 marks

1) What information did you use to predict whether a block would sink or float?

2) Which blocks floated?

3) What general statement can you make about the densities of the blocks that floated compared to the density of the water?

4) What general statement can you make about the densities of the blocks that did not float compared to the density of the water?

Conclusion: 5 marks

Tell me what you have learned from this experiment.

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Lab Questions /38 marks