6th Grade Science
Midterm Review Packet

Directions: Please complete the following work as review for your science midterm. Some of the review will be done in class and some portions will have to be completed for homework.

Remember: Your science midterm is on ________________________ from ________________

Science Skills
1) What is an observation?

2) What is an inference?

Directions: Please complete the chart below for this picture.

<table>
<thead>
<tr>
<th>Observations</th>
<th>Inferences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
</tbody>
</table>
**Measurement, Mass, Volume & Density**

1) The three base units used for measurement in the Metric System are:

____________________, ______________________, and ______________________

2) Use the chart below to define the term and describe how to calculate it.

<table>
<thead>
<tr>
<th></th>
<th>Definition</th>
<th>How do you find it?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volume</td>
<td></td>
<td>*See below for:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-Volume of a Regular Solid</td>
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<td></td>
<td></td>
<td>-Volume of an Irregular Solid</td>
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<tr>
<td>Volume of a Regular Solid</td>
<td>Definition of Regular Solid:</td>
<td></td>
</tr>
<tr>
<td>Volume of an Irregular Solid</td>
<td>Definition of Irregular Solid:</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>Density of a Regular Solid</td>
<td>Density of an Irregular Solid</td>
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<td>---------</td>
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</tbody>
</table>

*See below for:
- Density of a Regular Solid
- Density of an Irregular Solid

For questions 3-5, be sure to show all of your work and label!

3) Find the volume of the block shown below.

![Image of a block with dimensions 4cm x 5cm x 6cm]

4) What is the volume of the cap eraser below?

Water level on a graduated cylinder = 50mL
Water + cap eraser level on grad. cyl. = 59mL
5) The volume of a block = 50cm$^3$. The mass of the block = 25g. Find the density of the block.

6) What is the density of water?

7) Would the block from question 5 sink or float in water? Why?

Scientific Method

This section will cover your independent scientific method project, as well as the general information we covered about the scientific method before the project (the sheets you have in your binder).

The best way to study for this section would be to:

- Use your scientific method foldables to review terms
- Look over labs and activities we completed in class
- Read over any BrainPop questions that are starred
- Read through your rough draft packet about your project

Topics that may be addressed on the midterm from this section:

- Purpose
- Hypothesis
- Independent Variable
- Dependent Variable
- Controlled Variables
- Procedure
- Claim
- Evidence
- Interpretation