**CHEMISTRY 2022-23 August 24, 2022**

**Today’s Agenda (Day 6)**

1. HOUSEKEEPING ITEMS

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1. Homework Check:

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1. Class Activity:

🡪 DAY 2: a) Chapter 1 PPT Review

🡪 MINI LAB: Develop Observation Skills 🡪 see p. 2 of document

HOMEWORK:

* READ: Chapter 1 – Introduction to Chemistry
* READ: Chapter 2 – Analyzing Data
* COMPLETE: Chapter 1 Vocabulary (abridged template)
* STUDY: APA Review, Chapter 1

CHAPTER 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Applied research | Chemistry | Conclusion | Control | Dependent variable | experiment |
| Hypothesis | Independent variable | Mass | Model | Pure research | Qualitative data |
| Quantitative data | Scientific law | Substance | Theory  | Weight |  |

**ABRIDGED VOCABULARY TEMPLATE**

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| --- |
| **Term**:  |
| **TEXTBOOK DEFINITION** |
| **SENTENCE/PICTURE/EXAMPLE/FORMULA** |

REMINDERS:

* Chapter 1 Vocabulary – Aug. 25
* QUIZ: **APA Review 🡪 Aug. 25**
* TEST: **Ch 1 🡪 Aug. 30**

**CHEMISTRY 2022-23 MINI - LAB**

**CHAPTER 1 MIN LAB – Develop Observation Skills**

Why are observation skills important in chemistry? Observations are often used to make inferences. An inference is an explanation or interpretation of observations.

**Procedure **

1. Read and complete the lab safety form.

2. Add **water** to a **petri dish** to a height of 0.5 cm. Use a **graduated cylinder** to measure 1 mL of **vegetable oil**, then add it to the petri dish.

3. Dip the end of a **toothpick** into **liquid dishwashing detergent**.

4. Touch the tip of the toothpick to the water at the center of the petri dish. Record your detailed observations.

5. Add **whole milk** to a **second petri dish** to a height of 0.5 cm.

6. Place one drop each of **four different food colorings** in four different locations on the surface of the milk. Do not put a drop of food coloring in the center.

7. Repeat Steps 3 and 4.

**Analysis**

1. **Describe** what you observed in Step 4.

2. **Describe** what you observed in Step 7.

3. **Infer** Oil, the fat in milk, and grease belong to a class of substances called lipids. What can you infer about the addition of detergent to dishwater?

4. **Explain** why observations skills were important in this chemistry lab.