Monday 2/2 - Check In

Write on an index card how you are feeling about life and world events. I will allow 5 minutes of uninterrupted writing. You have 2 choices:

1. Put your card in my sink where I will burn it in front of you
2. Turn it into the box if you want me to read it.

Tuesday 2/3 – Dimensional Analysis (Metric & Imperial)

Directions: Select the correct unit from the drop-down menu. Then **type your final numerical answer**. Show work on paper.

1. **Metric**
   Convert **250 centimeters to meters**
   - Conversion factor: 1 m=100 cm

   250 centimeters x ---------- =

2. **Metric**
   Convert **3.5 kilograms to grams**
   - Conversion factor: 1 kg=1000 g

   3.5 kilograms x ---------- =

3. **Imperial**
   Convert **48 inches to feet**
   - Conversion factor: 1 ft=12 in

48 inches x ---------- =

4. **Imperial**
   Convert **2.5 miles to feet**

LIVEWORKSHEETS

- Conversion factor: 1 mi=5280 ft1

2.5 miles x ---------- =

Wednesday 2/4 – Counting Atoms in Chemical Formulas

Directions: For each formula, write the **number of atoms of each element**.

1. H_2O

- H: _____
- O: _____

2. $Ca(OH)_2$

- Ca: _____
- O: _____
- H: _____

3. $Al_2(SO_4)_3$

- Al: _____
- S: _____
- O: _____

Thursday 2/5 – Calculating Molar Mass

Directions: Calculate the **molar mass** of each compound.
Molar masses are whole numbers.

1. $Ca(NO_3)_2$

LIVEWORKSHEETS

- Ca = 40
- N = 14
- O = 16

Molar mass = _____ g/mol

---

2. $Al_2(SO_4)_3$

- Al = 27
- S = 32
- O = 16

Molar mass = _____ g/mol

Friday 2/6 – Weekly Review (Mixed Skills)

Directions: Answer all questions. Show work where needed.

1. Dimensional Analysis

Convert **7200 seconds to min**

- Conversion factors: 60 s=1 min

  7200 seconds x ---------- =

---

2. Counting Atoms

For $Mg_3(PO_4)_2$, count each element:

- Mg: _____
- P: _____
- O: _____

LIVEWORKSHEETS

3. Molar Mass

Calculate the molar mass of **Na_2CO_3**

- Na = 23
- C = 12
- O = 16

Molar mass = _____ g/mol

LIVEWORKSHEETS