**Purpose:**

**Materials:** Samples, balance, spatula, bag

**\*\*PLEASE DO NOT EMPTY THE CONTENTS OF THE BAG OUT ONTO THE SCALES.**

**\*\*The mass of the bag (MOB) is provided on the bag.**

**Part 1:**

1. Obtain a card from the teacher and fill it out.
2. Determine how many grams of the indicated substance you would need to measure out to equal the number of moles indicated on the card. **SHOW ALL WORK IN THE SPACE BELOW**. (Hint: use your purple mole map)
3. Once you have completed your calculation go to a scale.
4. Place the empty bag on the scale and push zero (this makes it so you don’t have to add the weight of the bag to your total). Then measure out the calculated amount into the bag.
5. Place card in bag with sample and seal shut. Turn in to your teacher.

**Part 2:**

1. Write down **bag number in space provided in chart**
2. Weigh the sample and record below. **Remember to subtract off the weight of the bag!!!**
3. Fill in the following chart **INCLUDING FULL UNITS** and **SHOW WORK below in the boxes or on a separate sheet**

|  |  |
| --- | --- |
| **Bag number** |  |
| **Mass of sample**  **(after subtracting the weight of the bag)** |  |
| **Molar mass of substance (g)** |  |
| **Moles of substance** |  |
| **Number of particles in the substance (remember particle is not the unit)** |  |

**Conclusion:**

|  |  |
| --- | --- |
| 0.150 mol NaCl  Names:  Period: | 0.200 mol NaCl  Names:  Period: |
| 0.250 mol NaCl  Names:  Period: | 0.300 mol NaCl  Names:  Period: |
| 0.350 mol NaCl  Names:  Period: | 0.150 mol NaCl  Names:  Period: |
| 0.200 mol NaCl  Names:  Period: | 0.250 mol NaCl  Names:  Period: |
| 0.300 mol NaCl  Names:  Period: | 0.350 mol NaCl  Names:  Period: |