

A Rotation Station Review

**Station 1: 8.5A – Structure of Atom**

1. Using models, identify each element.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Identify each particle on the model.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Particle** | **Charge** | **Mass** |
| A |  |  |  |
| B |  |  |  |
| C |  |  |  |
| D |  |  |  |

1. Using the cards, identify the mass of each element and the charge of the nucleus.

|  |  |  |
| --- | --- | --- |
|  | **Mass** | **Charge of Nucleus** |
| **1.** |  |  |
| **2.** |  |  |
| **3.** |  |  |
| **4** |  |  |

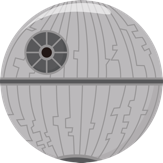
**Station 2: 8.5B – Identity/Reactivity**

1. Using the Bohr Model Cards in the bag & PTE, list the names of the elements from most reactive to least reactive.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using the PTE, identify the number of protons for following elements.

Ne: \_\_\_\_ He: \_\_\_\_ Cl: \_\_\_\_ C: \_\_\_\_ Li: \_\_\_\_

1. Using the Green Element cards, answer the following questions:
   1. Which two elements have the same reactivity? \_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_.
   2. What characteristics of an element determines which other elements they will react with? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Station 3: 8.5C – PTE Groups/Periods**

1. Using the elements & Period Table of the Elements.
   1. Which two elements are in the same group? \_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Which two elements have similar chemical properties? \_\_\_\_\_\_\_\_\_ &\_\_\_\_\_\_\_\_\_\_
   3. How do you know that they have similar chemical Properties? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. Which elements are in the same group? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. Which two elements are in the same period? \_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 4: 8.5D – Chemical Formulas**

1. Using the chemical formula models.

Pink=Sodium Black=Oxygen Green=Hydrogen Red=Carbon Blue=Chlorine

Write in the formula: A. \_\_\_\_\_\_\_\_\_\_\_ B. \_\_\_\_\_\_\_\_\_\_\_\_\_ C. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using the chemical formula cards, count how many atoms are present for the specific element.
   1. Carbon \_\_\_\_ b. Sodium \_\_\_\_ c. Calcium \_\_\_\_ d. Nitrogen \_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 5: 8.5E – Evidences of Chemical Change**

1. Using O C G L T P, write the evidence for each picture.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. identify each statement on the card as a physical change or a chemical change.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ e. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ f. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Station 6: 8.5F – Balancing Equations**

1. Identify the part of an equation by placing the cards in the correct order.
2. Using the chemical equation that is on the strip of paper,
   1. How many atoms are on both sides? \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_
   2. Is the equation balanced? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Which 3 coefficients balance the equation? \_\_\_\_ \_\_\_\_ \_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 7: 7.6A – Organic Compounds**

1. Using the chemical formula cards, list the following:

|  |  |
| --- | --- |
| **Organic Compounds** | **Inorganic Compounds** |
|  |  |
|  |  |
|  |  |

Which Element must be present in all organic compounds? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 8: 7.6B – Physical/Chemical Changes in Digestion**

1. Using the picture identify which represent chemical changes and which ones are physical changes.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ d. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ e. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ f. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Station 9: 6.5C – Elements/Compounds**

1. Using the strip of chemical formulas.

|  |  |
| --- | --- |
| **Elements** | **Compounds** |
|  |  |
|  |  |
|  |  |
|  |  |

**Station 10: 6.6A – M/MET/NM**

1. Using the cut outs and the PTE, sort the characteristics into the right categories & write them down.

|  |  |  |
| --- | --- | --- |
| **Metals** | **Metalloids** | **Non-Metals** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |



**READY YOU ARE**

**CHEMISTRY YOU HAVE MASTERED**