Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

**REVIEW STATION 4: Structure of an Atom/ Periodic Table**

**Label the pictures below and complete statements to the right.**

The **atomic number** represents the number of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in an atom.

The **atomic mass** equals the number of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in an atom.

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**Neutrons** are subatomic particles with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ charge found in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of an atom.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are subatomic particles with a **negative** charge found in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of an atom.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are subatomic particles with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ charge found in the **nucleus** of an atom?

What is the name of the atom represented by the Bohr model to the left?

**Fill in the missing information in the boxes below using your periodic table.**

**For each of the following isotopes, write the number of protons, neutrons, and electrons.**

|  |  |  |
| --- | --- | --- |
|  | Carbon-12 | Carbon-16 |
| # of protons |  |  |
| # of neutrons |  |  |
| # of electrons  |  |  |

|  |  |  |
| --- | --- | --- |
|  | Chromium-58 | Chromium-63 |
| # of protons |  |  |
| # of neutrons |  |  |
| # of electrons  |  |  |

|  |  |  |
| --- | --- | --- |
|   | Nitrogen-15 | Nitrogen-20 |
| # of protons |  |  |
| # of neutrons |  |  |
| # of electrons  |  |  |

|  |  |  |
| --- | --- | --- |
|  | Sulfur-23 | Sulfur-25 |
| # of protons |  |  |
| # of neutrons |  |  |
| # of electrons  |  |  |

**Color the periodic table and the key included below based on these instructions. Check the box once complete.**

* Shade in the **alkali metals** with the color red. BE CAREFUL ABOUT HYDROGEN!!!!!!!
* Shade in the **alkaline earth metals** with the color yellow.
* Shade in the **transition metals** with the color green.
* Shade in the **halogens** with the color blue.
* Shade in the **Noble Gases** with the color orange.
* Shade in the **metalloids** with the color light blue.
* Shade in the **other non-metals** with the color pink.

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**Name a halogen: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name a metalloid: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name an alkali metal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name an alkaline earth metal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name a noble gas: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name a transition metal: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**