**History of the Atom Quiz Review – General**

1. How many protons are in samarium? \_\_\_\_\_\_
2. What did the gold foil experiment discover? \_\_\_\_\_\_
3. What charge does an alpha particle have? \_\_\_\_\_\_
4. How many protons, neutrons, and electrons are in 265Lr?
5. What is the atomic mass of the isotope of cesium that contains 81 neutrons? \_\_\_\_\_\_
6. What is the atomic number of vanadium?
7. What is an isotope?
8. Do atoms of different elements have different properties? Explain.
9. Fill out the following chart:

|  |  |  |
| --- | --- | --- |
| Particle | Where is it found in the atom? | What it its electric charge? |
| proton |  |  |
| neutron |  |  |
| electron |  |  |

**General Chemistry History of the Atom Quiz**

1. How many protons are in potassium? (1 pt)\_\_\_\_\_\_
2. What did the cathode ray tube experiment discover? (1 pt) \_\_\_\_\_\_
3. What is an alpha particle? (2 pt)
4. How many protons, neutrons, and electrons are in 238U? (3 pt)
5. What is the atomic mass of the isotope of calcium that contains 42 neutrons? (1 pt).
6. What is the atomic number of scandium? (1 pt) \_\_\_\_\_\_
7. What are the differences between the isotopes of a chemical element? (3 pt)
8. Do all atoms of the same elements have the same properties? Explain. (3 pt)
9. Fill out the following chart:

|  |  |  |
| --- | --- | --- |
| Particle | What is its mass? (in amu) | What it its electric charge? |
| proton |  |  |
| neutron |  |  |
| electron |  |  |