

Physical Science Unit 1 District Assessment Prep

1. What makes an atom go from being neutral to being an ion?

2. Elements in group 17 form what type of ion?

3. In order for an element to be Oxygen it must have

4. An element has 5 protons, 6 neutrons, 7 electrons.

What is the element?

What is it's atomic mass?

What is its charge?

5. Give one example of a metal

nonmetal

metalloid

6. Name three elements that would have similar chemical properties (valence electrons, oxidation #) in common with Magnesium.

7. What elements are the following?

3 protons, 4 neutrons, 3 electrons

9 protons, 10 neutrons, 9 electrons

8. Why don't elements in group 18 react with other elements?

9. Fill in the chart for the characteristics of metals, nonmetals, and metalloids below.

| Metals | Nonmetals | Metalloids |
|--------|-----------|------------|
| | | |

10. What is the name of the electrons that are responsible for the chemical behavior of an atom called?

11. How do you form a positively charged ion?

How do you form a negatively charged ion?

12. How many valence electrons have Sodium =

Oxygen

Aluminum

13. What determines how an atom will bond with other elements?

14. Where are metals located on the periodic table?

Where are metalloids located on the periodic table?

Where are nonmetals located on the periodic table?

15. Why are elements divided into groups on the periodic table?