Elements

Table

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Periodic Table Review

Part A: Answer these questions based on your knowledge of the periodic table.

- 1. How do you determine the number of <u>protons</u> OR <u>electrons</u> element has?

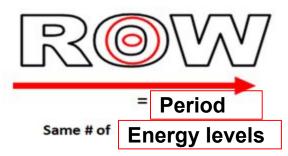
 Use its atomic number (usually found at the top of a square)
- 2. How do you determine the number of <u>valence electrons</u> in an atom?

 Use it's location the column it is in.
- 3. Which number tells you how many <u>protons & neutrons</u> are in the nucleus? Use its atomic mass (usually found at the bottom of a square)
- 4. How do you determine the number of <u>neutrons</u> an element has? Subtract the atomic number from the atomic mass
- 5. How do you determine the <u>family</u> or <u>class</u> for an element?

 Use it's location the column is its family.
- 6. How do you determine the number of <u>energy levels</u> in an atom?

 Use its location the row # is the # of energy levels it has
- 7. Label the diagrams.





Part B: Mystery Element Challenge - Use your periodic table and the clues to determine the mystery element. Write its symbol in the correct format! Tam a gas with three energy levels and 7 valence electrons. Tam a halide with 6 energy levels. At Hg 3. Tam a liquid metal with 80 electrons. I am a member of the nitrogen family with 16 neutrons. **Au** 5. Iam a transition metal with 79 electrons. Tam a metalloid in the Nitrogen family with 42 neutrons. As Cr I am a transition metal with 4 energy levels and a mass of 52. Si Tam a metalloid with 3 valence electrons. Kr I am a Noble gas with 4 energy levels. 10. I am a nonmetal that is a liquid at room temperature. 11. Tam a solid Halogen with 74 neutrons. 12. Tam a transition metal with 99 electrons. **Sr** 13. Tam an Alkaline Earth metal with 5 energy levels. **Be** 14. Thave 2 valence electrons in my second energy level. Te 15. I am a metalloid in the Oxygen family with 5 energy levels. Ca 16. Thave 20 neutrons and 2 valence electrons. LV 17. Tam a Chalcogen with 7 energy levels. 18. Thave 26 electrons and 30 neutrons. Ne 19. Thave a full outer shell and a total of 2 energy levels. ??? 20. Create your own: