NAME _____ PER_____ DATE_____ MAIL_____

You will utilize two video resources, Khan Academy, Virtual School and Class PPT Notes to complete a Periodic Table for your reference.

Utilize the link provided to open KHAN ACADEMY. If you miss something don't worry. Instructions and prompts will be on the following page for you to get any and all notes from the power point as well.

1. What are the Periods and Groups in the Periodic Table? I Chemistry for All 3:04 min https://www.youtube.com/watch?v=7mLPC74GHMo

The Periods equal what regarding electrons? _____ **(WRITE)**

The Groups equal what regarding electrons? _____ **(WRITE)**

2. The periodic table - classification of elements 8:55 min

https://www.khanacademy.org/science/chemistry/periodic-table/copy-of-periodic-table-of-elements/v/periodic-table-introduction

Go to Khan Academy, Click Science and Engineering, Scroll to Chemistry, find and click: The periodic table – classification of elements.

Utilize this link to label your Periodic Table as thoroughly as possible. You'll be allow to use **your** Periodic Table on the Unit Quiz.

DO NOT Attempt to fill in every element symbol. That would be silly.

Simply label what is on the list below.

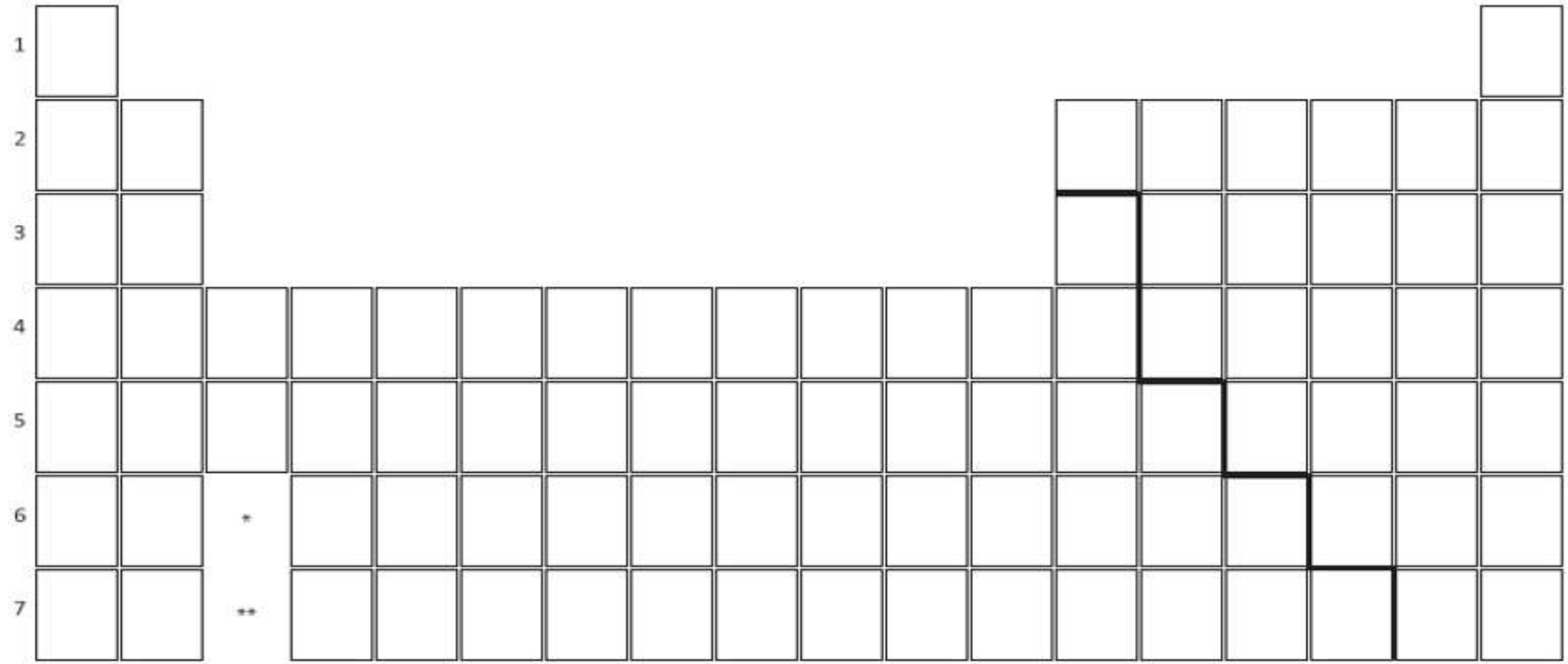
What is a valence electron? _____**(WRITE)**

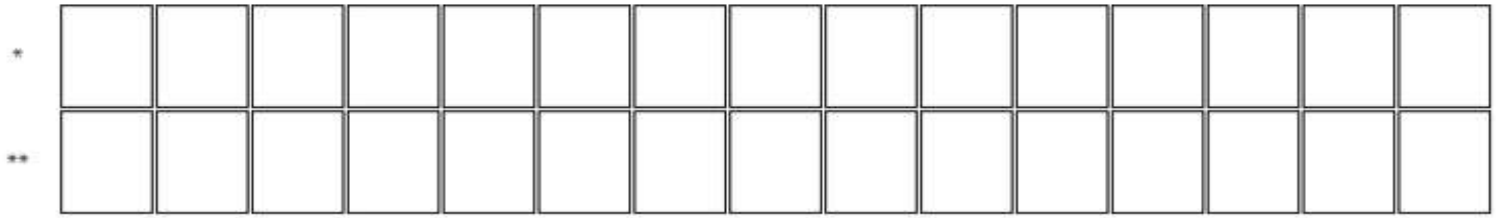
How can you determine the number of valence electrons?_____**(WRITE)**

Label:

Groups' numbers	halogens
Periods' numbers	noble gases
alkali metals	metalloids
alkaline metals	B, C, N, O

metals vs. non-metal region
transitions metals
sketch dividing line between metals and nonmetals





Ne

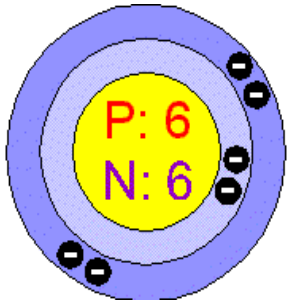
Name the element.
Number of shells?
Valence electrons?

H

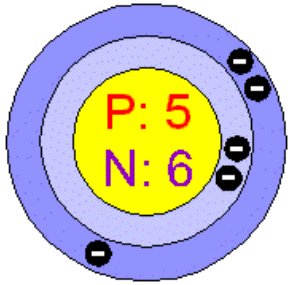
Name the element.
Number of shells?
Valence electrons?

He

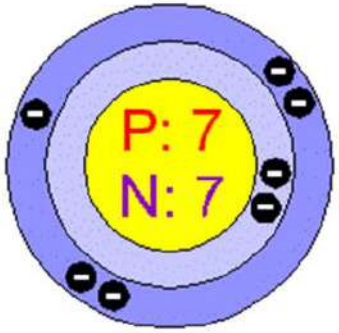
Name the element.
Number of shells?
Valence electrons?



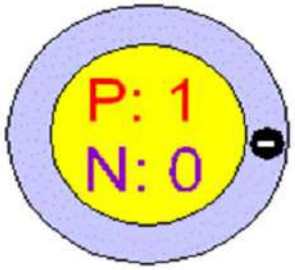
- **How many valence electrons?**
- **What group is this element in? Period?**



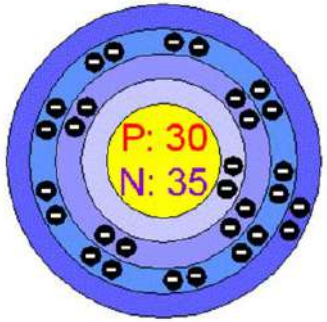
- **How many valence electrons?**
- **What group is this element in? Period?**



- How many valence electrons?
- What group is this element in? Period?



- How many valence electrons?
- What group is this element in? Period?



- How many valence electrons?
- What group is this element in? Period?

Sketch Aluminum with the proper number of shells and electrons.

Review the slides further. Sodium and chloride of course bonds to form salt. The type bound they form is an ionic one.

Cations are formed when an atom gives up an electron and thus becomes positive.

Anions are form when an atom gains an electron.

Label sketch Sodium and Chlorine bonding to form sodium chloride Na Cl:
Label electron shells, electrons, nuclei, cation and anion, Na and Cl.