

## Element Cards

**Goal:** Create cards that reveal specific properties of various elements and their atoms.

**Method:** Neatly fill in the cards so that all information is legible. You have 26 elements to research within your group. Divide the elements as evenly as possible. Follow the template below when filling out your cards.

Atomic number → 121

Element name → Elementium

El

Atomic mass → 360.35 amu

\_\_x\_\_ protons

\_\_y\_\_ neutrons

\_\_z\_\_ electrons

Bohr model  
**EXAMPLE**

Electron information → \_\_\_\_\_ energy levels

\_\_\_\_\_ valence electrons

**Website:**

1. [www.chemicalelements.com](http://www.chemicalelements.com) -- use to find: atomic number, element name, atomic mass, numbers of protons, neutrons, and electrons, and the Bohr atom model for this element (atomic structure).

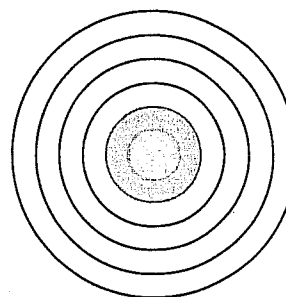
Number of electrons on....

How to draw them....

Energy level 1 (ring 1) \_\_\_\_\_

Energy level 2 (ring 2) \_\_\_\_\_

Energy level 3 (ring 3) \_\_\_\_\_

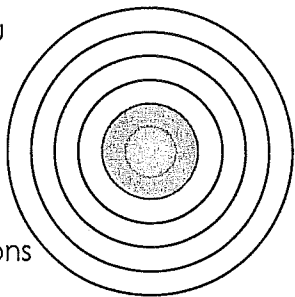


**WHEN FINISHED:** Once all cards are finished:

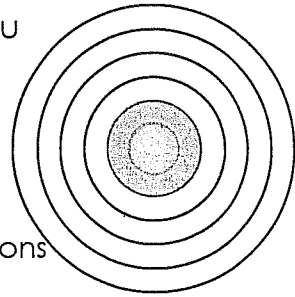
1. Cut them apart and organize them in a way that you can explain to the class
2. Color them in a way you can explain to the class



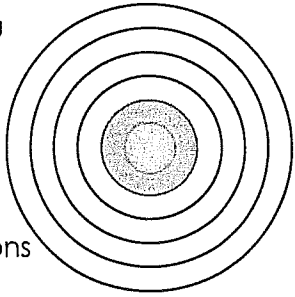
\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**He**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



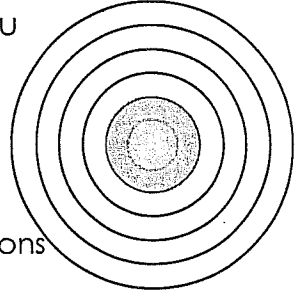
\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**C**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



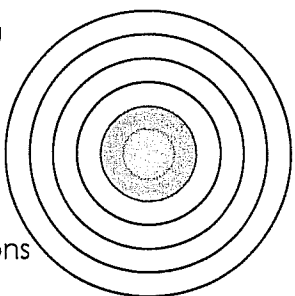
\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**P**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



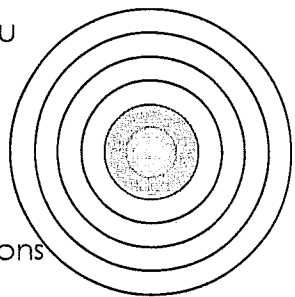
\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**S**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



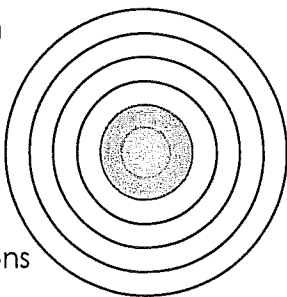
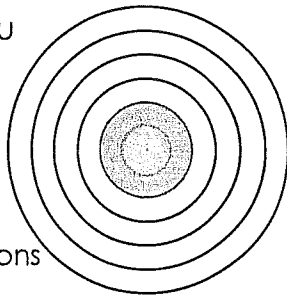
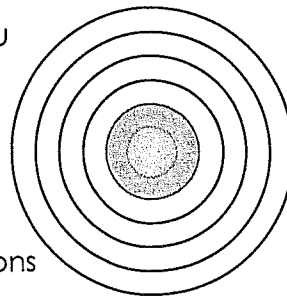
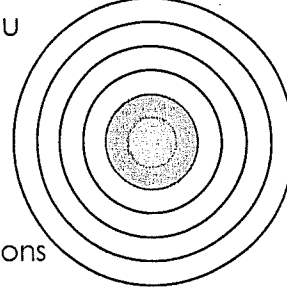
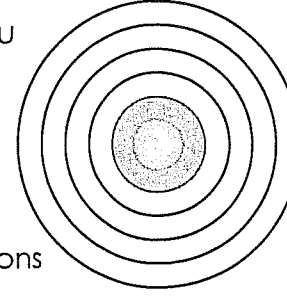
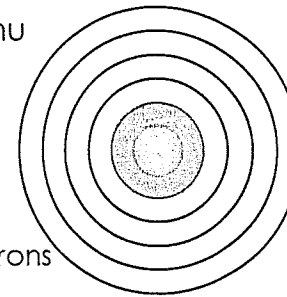
\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**Mg**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**H**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons

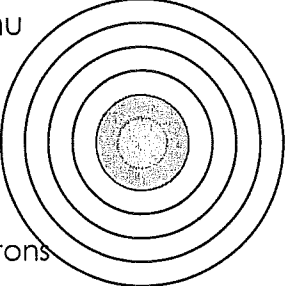




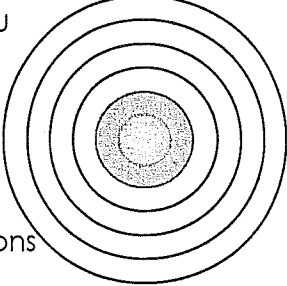
<p>_____ protons          _____ neutrons  <b>N</b> _____ electrons          _____ amu</p> <p>_____ energy levels          _____ valence electrons</p> 	<p>_____ protons          _____ neutrons  <b>Al</b> _____ electrons          _____ amu</p> <p>_____ energy levels          _____ valence electrons</p> 
<p>_____ protons          _____ neutrons  <b>F</b> _____ electrons          _____ amu</p> <p>_____ energy levels          _____ valence electrons</p> 	<p>_____ protons          _____ neutrons  <b>Ar</b> _____ electrons          _____ amu</p> <p>_____ energy levels          _____ valence electrons</p> 
<p>_____ protons          _____ neutrons  <b>Si</b> _____ electrons          _____ amu</p> <p>_____ energy levels          _____ valence electrons</p> 	<p>_____ protons          _____ neutrons  <b>Na</b> _____ electrons          _____ amu</p> <p>_____ energy levels          _____ valence electrons</p> 



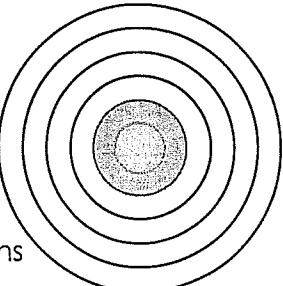
\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**Be**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



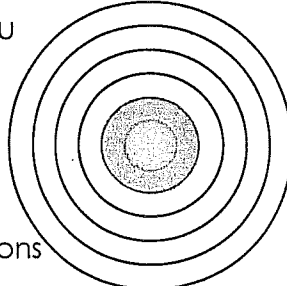
\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**O**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



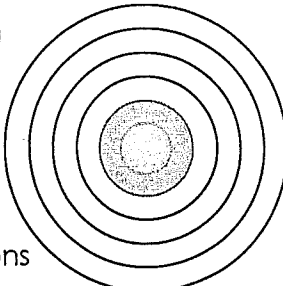
\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**Cl**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**B**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**Li**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons



\_\_\_\_\_ protons  
 \_\_\_\_\_ neutrons  
 \_\_\_\_\_ electrons  
**Ne**  
 \_\_\_\_\_ amu  
 \_\_\_\_\_ energy levels  
 \_\_\_\_\_ valence electrons

