Name:_____ Div: _____

Element Research

Go to https://www.chemicool.com/elements/palladium.html

In the top left box, fill in:

1. The atomic number on the top line
2. symbol
3. name of the element
4. Atomic mass on the bottom line

In the top right box, calculate:

1. The number of protons (P)
2. The number of neutrons (N)
3. The number of electrons (E)

- The number of **protons** in the nucleus of the atom is equal to the atomic number.
- The number of **electrons** in a *neutral* atom is **equal to** the number of **protons**.
- The **atomic mass** number of the atom is **equal to** the ***sum of the number of protons*** *and* ***neutrons*** in the nucleus.
- The number of **neutrons** is equal to the **difference** between the **mass number of the atom and the atomic number** so... N=Atomic mass - atomic number.

In the Middle right box, Identify:

1. The Name and Number of the group the element belongs to.
2. The number of the period the element belongs to.

In the bottom right box:

1. draw the element using the Bohr Model or the Lewis Dot illustration
    1. Google your element and bohr model and copy that down in this section.

In the bottom right box:

1. Physical description of the element: metal, nonmetal, or metalloid; solid, liquid, or gas at room temperature, or synthetic.

- At least two characteristics of the element.
- The description of at least two common uses of the element.
- When was the element discovered and who discovered it.

_____	P=____ N=____ E=____
	Group- _____ Period- _____
Bohr Model	Element Info.