

Name: _____

Date: _____

Worksheet 3A The Periodic Table (Nelson p.164-165)

1. Fill in the Blank.

**outside
protons
nucleus**

**neutrons
atoms
smaller**

**same
negative
no**

**cancel out
electrons
positive**

- a) All matter is made of tiny parts called _____.
- b) The center part of an atom is called the _____.
- c) A nucleus is made up of _____ and _____.
- d) Electrons are found _____ the nucleus.
- e) Electrons are _____ than protons or neutrons.
- f) The main parts of an atom are _____, _____, and _____.
- g) Since protons have a _____ charge, and neutrons have _____ charge, the nucleus will have a _____ charge.
- h) Electrons have a _____ charge.
- i) An atom has the _____ number of protons and electrons.
- j) The plus and minus charges of an atom _____ each other.

2. State whether each element below is a **metal (M)**, a **non-metal (NM)** or a **metalloid (MD)**

Element	M or NM or MD	Element	M or NM or MD
hydrogen		Sodium	
helium		Magnesium	
Lithium		Aluminum	
Beryllium		Silicone	
Boron		phosphorous	
carbon		sulfur	
nitrogen		Chlorine	
oxygen		Argon	
fluorine		Potassium	
neon		calcium	

3. Using the periodic table to state **atomic number** and **mass number** (round the number) for

- | | | |
|---------------------|---------------------|-------------------|
| a. beryllium | atomic number _____ | mass number _____ |
| b. chlorine | atomic number _____ | mass number _____ |
| c. potassium | atomic number _____ | mass number _____ |
| d. nitrogen | atomic number _____ | mass number _____ |
| e. neon | atomic number _____ | mass number _____ |

4. Fill in the Blanks.

period
group

halogens
noble gases

metals
non-metals

family
hydrogen

- a) A **horizontal row** of elements in the periodic table is called a _____.
- b) A **vertical column** of elements in the periodic table is called a _____, is also called a _____.
- c) Elements in **group 17** are called _____.
- d) Elements in **group 18** are called _____.
- e) Hydrogen is a _____.
- f) All _____ are located on the left side of the periodic table.
- g) All _____ are located on the right side of the periodic table, except _____.

5. Classify each of the following elements as either **metal** of a **non-metal**:

- | | | | |
|------------|-------|--------------|-------|
| (a) oxygen | _____ | (c) chlorine | _____ |
| (b) sodium | _____ | (d) gold | _____ |