

# Periodic Elements Need to Knows Worksheet

**Directions:** Use your periodic table to find the Symbol, atomic number & atomic mass (round the atomic mass to the nearest whole number). Determine if the element is a metal, nonmetal or metalloid and if it is a solid, liquid or a gas at room temperature.

1. Knowing that the atomic number tells us the number of protons, fill in the “# protons” column.
2. Since the # of electrons is equal to the number of protons in a neutral atom, now fill in the “# electrons” column.
3. Knowing the atomic mass = the # of protons + the # of neutrons, simply subtract the # of protons from the atomic mass to determine the number of Neutrons. Now fill in the “# neutron” column with this number you have just calculated.

Element	Symbol	Atomic Number	Atomic Mass	- # Protons	= # Neutrons	# Electrons	Solid Liquid Gas	Metal Metalloid Nonmetal
Hydrogen								
Oxygen								
Carbon								
Nitrogen								
Calcium								
Phosphorus								
Sulfur								
Helium								
Sodium								
Chlorine								
Aluminum								
Potassium								



## Periodic Elements Need to Knows Worksheet

**Directions:** Use your periodic table to find the Symbol, atomic number & atomic mass (round the atomic mass to the nearest whole number). Determine if the element is a metal, nonmetal or metalloid and if it is a solid, liquid or a gas at room temperature.

1. Knowing that the atomic number tells us the number of protons, fill in the “# protons” column.
2. Since the # of electrons is equal to the number of protons in a neutral atom, now fill in the “# electrons” column.
3. 3. Knowing the atomic mass = the # of protons + the # of neutrons, simply subtract the # of protons from the atomic mass to determine the number of Neutrons. Now fill in the “# neutron” column with this number you have just calculated.

Element	Symbol	Atomic Number	Atomic Mass	- # Protons	= # Neutrons	# Electrons	Solid Liquid Gas	Metal Metalloid Nonmetal
Hydrogen	H	1	1	1	0	1	G	NM
Oxygen	O	8	16	8	8	8	G	NM
Carbon	C	6	12	6	6	6	S	NM
Nitrogen	N	7	14	7	7	7	G	NM
Calcium	Ca	20	40	20	20	20	S	M
Phosphorus	P	15	31	15	16	15	S	NM
Sulfur	S	16	32	16	16	16	S	NM
Helium	He	2	4	2	2	2	G	NM
Sodium	Na	11	23	11	12	11	S	M
Chlorine	Cl	17	35	17	18	17	G	NM
Aluminum	Al	13	27	13	14	13	S	M
Potassium	K	19	39	19	20	19	S	M

