

Name: _____ Date: _____ Period: _____

Atoms vs. Ions worksheet

Cations:

Have a positive charge

Have lost electrons

Anions:

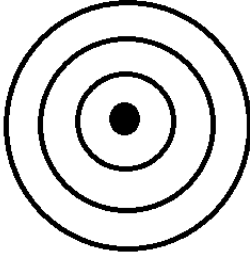
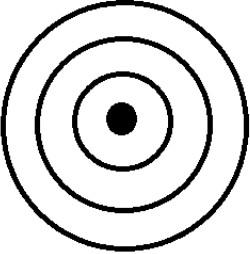
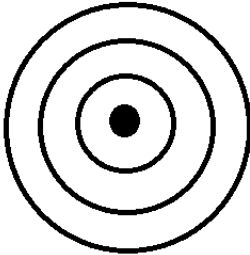
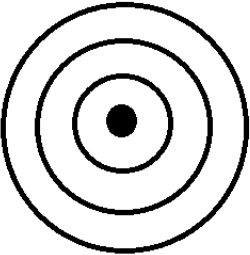
Have a negative charge

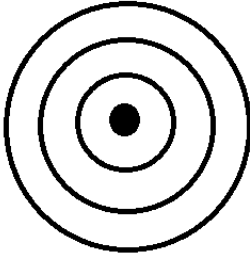
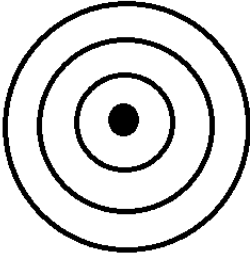
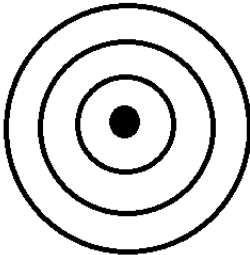
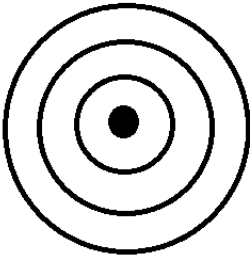
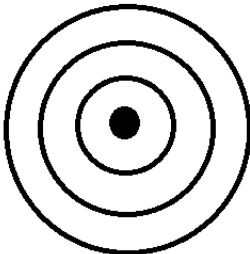
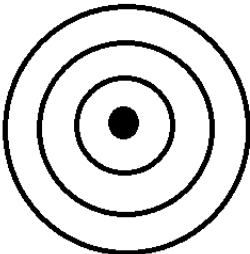
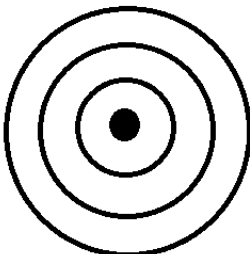
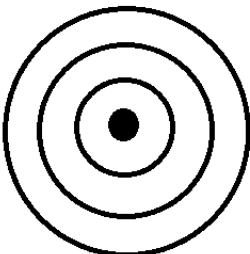
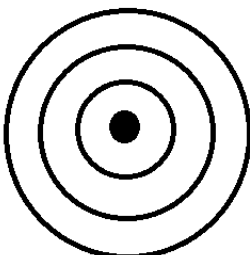
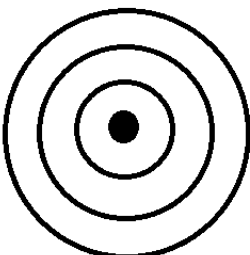
Have gained electrons

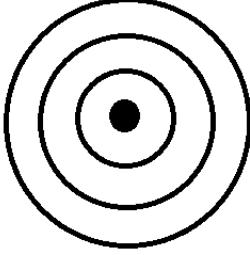
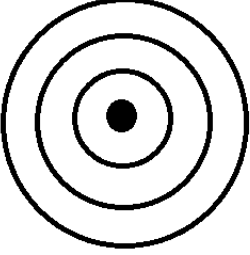
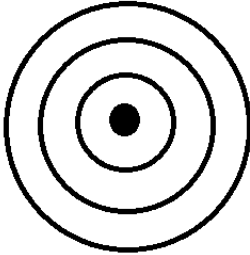
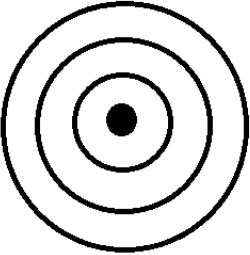
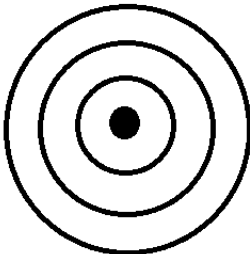
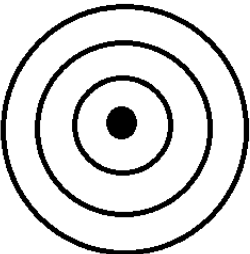
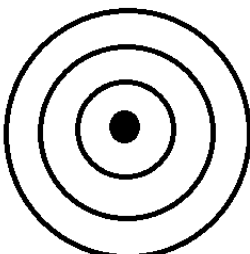
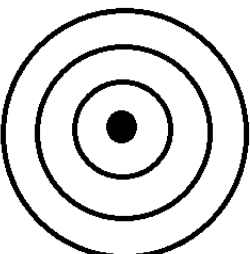
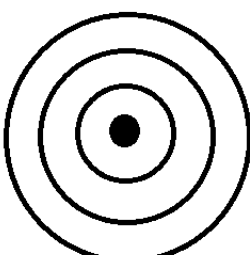
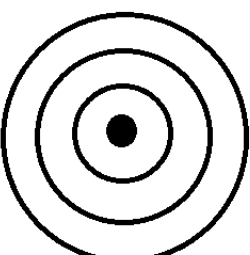
Ion symbol:

To write the ion symbol, you must write the element symbol with the charge written on the top right.

Example: Ca^{2+} , Zn^{2+} , Ag^{1+}

		Lithium atom	Lithium ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Lithium atom	Lithium ion	Cation/Anion:	Ion symbol:
		Beryllium atom	Beryllium ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Beryllium atom	Beryllium ion	Cation/Anion:	Ion symbol:

		Boron atom	Boron ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Boron atom	Boron ion	Cation/Anion:	Ion symbol:
		Nitrogen atom	Nitrogen ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Nitrogen atom	Nitrogen ion	Cation/Anion:	Ion symbol:
		Oxygen atom	Oxygen ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Oxygen atom	Oxygen ion	Cation/Anion:	Ion symbol:
		Fluorine atom	Fluorine ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Fluorine atom	Fluorine ion	Cation/Anion:	Ion symbol:
		Sodium atom	Sodium ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Sodium atom	Sodium ion	Cation/Anion:	Ion symbol:

		Magnesium atom	Magnesium ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Magnesium atom	Magnesium ion	Cation/Anion:	Ion symbol:
		Aluminum atom	Aluminum ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Aluminum atom	Aluminum ion	Cation/Anion:	Ion symbol:
		Phosphorus atom	Phosphorus ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Phosphorus atom	Phosphorus ion	Cation/Anion:	Ion symbol:
		Sulfur atom	Sulfur ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Sulfur atom	Sulfur ion	Cation/Anion:	Ion symbol:
		Chlorine atom	Chlorine ion
		Atomic number:	Atomic number:
		Mass number:	Mass number:
		Protons:	Protons:
		Neutrons:	Neutrons:
		Electrons:	Electrons:
Chlorine atom	Chlorine ion	Cation/Anion:	Ion symbol: