

Atomic Particles Exercise – Ions

Date _____

Learning Goal: By the end of this activity, I will be able to...

1. determine the number of p⁺ and e⁻ and the overall ionic charge of ions
2. name ions and write their symbols

TASK:

The following list contains **charged ions**. Use the periodic table to fill in the correct information and complete the chart. **DO NOT** draw Lewis symbols for transition metals.

Name and Symbol	Atomic Number	Mass Number	# of n ⁰	# of p ⁺	# of e ⁻	Ionic Charge
Calcium	20	40	20	20	18	+2
oxide ion oxygen	8	16	8	8	10	-2
F ⁻¹ Fluorine	9	19	10	9	10	-1
Iron Fe	26	56	30	26	24	+2
Cu ⁺²	29	64	35	29	27	+2
Hydrogen H ⁺¹	1	1	0	1	2	-1
Cl ⁻¹	17	35	18	17	18	-1
Strontium	38	88	50	38	36	+2
Ag ⁺¹	47	107	60	47	46	+1
bromide ion, bromine	35	80	45	35	36	-1
K ⁺¹	19	39	20	19	18	+1
nitride ion, nitrogen	7	14	7	7	10	-3
Aluminium	13	27	14	13	10	+3

