

NEUTRAL ATOMS, IONS, AND ISOTOPES WORKSHEET

Complete the following table with the appropriate information.

Name of the Element	Atomic Number	Mass Number	Number of Protons	Number of Neutrons	Number of Electrons	Is it an Neutral Atom, an Isotope, or an Ion (with charge)?
			6	8	6	
Oxygen		16	8			Ion (with a -2 charge)
	12				10	
	92			143		Isotope
Helium						
	11	23			10	Ion (with a +1 charge)
Chromium					22	
Chlorine						Ion (with a +1 charge)
		201	80			Neutral Atom
			13	14		Ion (with a +3 charge)
Neon		20			10	
	1	1			0	
	15	31				Neutral Atom
Lithium						
	19	39				Ion (with a +1 charge)
Iron		56	26			Ion (with a +3 charge)

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Answers

Name of the Element	Atomic Number	Mass Number	Number of Protons	Number of Neutrons	Number of Electrons	Is it an Neutral Atom, an Isotope, or an Ion (with charge)?
Carbon	6	14	6	8	6	Isotope
Oxygen	8	16	8	8	10	Ion (with a -2 charge)
Magnesium	12	24	12	12	10	Ion (with a +2 charge)
Uranium	92	235	92	143	92	Isotope
Helium	2	4	2	2	2	Neutral Atom
Sodium	11	23	11	12	10	Ion (with a +1 charge)
Chromium	24	52	24	28	22	Ion (with a +2 charge)
Chlorine	17	35	17	18	18	Ion (with a +1 charge)
Mercury	80	201	80	121	80	Neutral Atom
Aluminum	13	27	13	14	10	Ion (with a +3 charge)
Neon	10	20	10	10	10	Neutral Atom
Hydrogen	1	1	1	0	0	Ion (with a +1 charge)
Phosphorus	15	31	15	16	15	Neutral Atom
Lithium	3	7	3	4	3	Neutral Atom
Potassium	19	39	19	20	18	Ion (with a +1 charge)
Iron	26	56	26	30	23	Ion (with a +3 charge)