

Name: Sturman Key

Period: _____

Date: _____

Isotope Number 1

You will become more familiar with the atomic structure of some common substances by completing the chart below. For each substance, you have been given enough information to fill in all the blanks. Unless otherwise stated, assume that the overall charge on each element is neutral.

+ 1/4 cal

Substance	Symbol	Atomic Number	Mass Number	Number of Protons	Number of Neutrons	Number of Electrons
Helium	⁴ He	2	4	2	2	2
Zinc	⁶⁵ Zn	30	65	30	35	30
Antimony	¹²¹ Sb	51	121	51	70	51
Aluminum	¹³ Al	13	27	13	14	13
Uranium	²³⁸ U	92	238	92	146	92
Sodium	²³ Na	11	23	11	12	11
Krypton	⁸⁴ Kr	36	84	36	48	36
Calcium-42	⁴² Ca	20	42	20	22	20
Silver	¹⁰⁷ Ag	47	107	47	60	47
Magnesium	²⁴ Mg	12	24	12	12	12
Selenium	⁸⁰ Se	34	80	34	46	34
Mercury	²⁰¹ Hg	80	202	80	122	80
Bromine-79	⁷⁹ Br	35	79	35	44	35
Barium-138	¹³⁸ Ba	56	138	56	82	56
Lithium-7	⁷ Li	3	7	3	4	3
Oxygen-18	¹⁸ O	8	18	8	10	8
Gallium-69	⁶⁹ Ga	31	69	31	38	31
Tellurium-126	¹²⁶ Te	52	126	52	74	52

23 total