

Name Key Class _____ Date _____

Atomic Structure

Subatomic Particles in Neutral Atoms

The table below contains information about several isotopes. Use the information given to fill in the blanks. Assume all atoms are neutral.

Isotope Name	Nuclear Symbol	Atomic Number	Mass Number	# of Protons	# of Neutrons	# of Electrons
1. calcium-40	$^{40}_{20} Ca$	20	40	20	20	20
2. iron-56	$^{56}_{26} Fe$	26	56	26	30	26
3. oxygen-18	$^{18}_{8} O$	8	18	8	10	8
4. gold-197	$^{197}_{79} Au$	79	197	79	118	79

Subatomic Particles in Ions

The table below contains information about several ions. Use the information given to fill in the blanks.

Element Name	Ion Symbol	Atomic Number	Mass Number	# of Protons	# of Neutrons	# of Electrons
5. chlorine	Cl^{-}	17	35	17	18	18
6. silver	Ag^{+}	47	107	47	60	46
7. oxygen	O^{2-}	8	16	8	8	10
8. aluminum	Al^{3+}	13	27	13	14	10

Average Atomic Mass

9. Calculate the average atomic mass for neon if its abundance in nature is 90.5% neon-20, 0.3% neon-21, and 9.2% neon-22.

$$\frac{(90.5)(20 \text{ amu}) + (0.3)(21 \text{ amu}) + (9.2)(22 \text{ amu})}{100} = 20.18 \text{ amu}$$

10. Calculate the average atomic mass of silver if 13 out of 25 atoms are silver-107 and 12 out of 25 atoms are silver-109.

$$\frac{(13)(107 \text{ amu}) + (12)(109 \text{ amu})}{25} = 107.96 \text{ amu}$$

Atomic Structure Practice Answer Key Chemistry

Chao Zhang

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