

Quiz 2.1 – Atomic Theory Quiz

Name: Key

Problem 1

Fill in the blanks

Most of an atom's mass is contained in the nucleusThe source of negative charge in an atom is the electronsThe source of positive charge in an atom is the protons

Problem 2

Fill in the blank portions of the following table (you may use any periodic table available to you)

Symbol	# of Protons	# of Neutrons	# of Electrons	Mass #
^{13}C	6	7	6	13
$^{37}\text{Cl}^-$	17	20	18	37
$^{207}\text{Pb}^{2+}$	82	125	80	207

Problem 3

How many atoms of each type of element are present in the compound $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$?N-2 H-8 Cr-2 O-7

Problem 4

Name three pivotal scientific experiments which have helped us understand the structure of atoms

Thompson Cathode-Ray
Millikan Oil-Drop
Rutherford Gold Foil