

## Quiz 2.1 – Atomic Theories

Name: \_\_\_\_\_

**Problem 1**

Fill in the blanks

Most of an atom's mass is contained in the \_\_\_\_\_

The source of negative charge in an atom is the \_\_\_\_\_

The source of positive charge in an atom is the \_\_\_\_\_

**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 #
	6	7	6	
$^{37}\text{Cl}^-$				
	82		80	207

**Problem 3**How many atoms of each type of element are present in the compound  $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ ?**Problem 4**

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

李绅 (*Toiling Farmers*)

By 悯农 (Li Shen)

锄禾日当午，  
汗滴禾下土。  
谁知盘中餐，  
粒粒皆辛苦。

Farmers weeding at noon,  
Sweat down the field soon.  
Who knows food on a tray  
Thanks to their toiling day?