

Revised August 2011



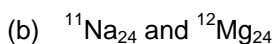
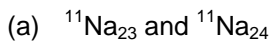
HONORS WORKSHEET 2s: Atoms and Atomic Theory Summary



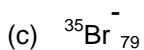
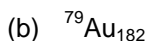
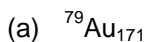
1. In the table below, match the scientist with the experiment. (2)

Scientist	Experiment
Crookes	Oil Drop
Millikan	Cathode Ray
Rutherford	Gold Foil

2. Consider the following pairs; does either pair represent a pair of isotopes? Explain. (4)



3. Determine the number of protons, electrons and neutrons in each of the following isotopes. (3)



4. Naturally occurring bromine molecules, Br_2 have masses of 158, 160 and 162. They occur in the relative abundances 25.69%, 49.99% and 24.31% respectively. What is the average atomic mass of bromine atoms? What is the relative abundance of ^{79}Br and ^{81}Br isotopes? (4)