

Finding the Average Atomic Mass of Rodyium

Directions: Located somewhere in the room are isotopes of the element Rodyium. While you don't know how many isotopes, you know they must equal 100% in abundance.

You Task: You have (10) minutes to locate all isotopes of Rodyium and bring them to the front of the class room for analysis.

Once we have 100% in abundance we can calculate the average atomic mass of Rodyium

Write the isotopes of Rodyium below. The number of spaces does not correlate with the number of isotopes for Rodyium.

<u>Isotope notation</u>	<u>% abundance</u>
-------------------------	--------------------

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Calculate the Average atomic Mass of Rodyium (Show all work below)

Rudmium – 115
% abundance 1%

Rudmium – 116
% abundance 8%

Rudmium – 117
% abundance 56%

Rudmium – 118
% abundance 34%

Rudmium – 119
% abundance 0.9%

Rudmium – 120
% abundance 0.1%