

Bellringers Week 6: 9/29 - 10/3

Day 1: Monday 9/29

Look at your periodic table and find the elements

Hydrogen-3



Carbon-14



Chlorine-37



Uranium-235



What is the number in the upper left corner?

What is the number written after the name with a hyphen?

Which number will NEVER change?

Day 2: Tuesday 9/30

Construct the hyphen notation (from your periodic table) for these elements:

1. Curium-
2. Osmium-
3. Moscovium-

Which number did you type?

Day 3: Wednesday 10/1

Match each isotope with the correct description:

^2H (Deuterium)

^3H (Tritium)

^1H (Protium)

- a) Hydrogen with no neutrons
- b) Hydrogen with one neutron
- c) Hydrogen with two neutrons

Given: isotopes of element "X"

Wanted: **average atomic mass of X** to the hundredths place?

Isotope	Abundance	Mass (amu)
^{185}X	53.04%	184.99
^{186}X	9.49%	185.97
^{187}X	37.47%	186.93

Type the answer out to the second decimal place

amu

Day 4: Thursday 10/2



Day 5: Friday 10/3

In your OWN words:

How does the number of neutrons affect the stability of an isotope?

If an element has 11 protons, how many electrons does it have in a neutral atom?

Why is the nucleus positively charged?