Bell Ringer: go to www.allinlearning.com and take the assessment.

Learning Objective:

Students will be able to calculate weighted averages including average atomic mass.

Weighted averages:

-an average resulting from the multiplication of each component by a factor reflecting its importance.

How final grades are calculated:

Daily/Homework = 40.0%

Projects = 20.0%

Six-weeks Test = 15.0%

Test = 25.0%

Sample grades: Average

Daily = 100., 50, 75, 80., 90., 100. D =

Project = 85, 95, 100., 60. P =

6-week test = 80, 70., 85 6w=

Test = 65 T=

Calculating the final quarter grade:

Natural Abundance of Isotopes

The masses listed on the periodic table are due to the existence of isotopes and how frequent these isotopes exist in nature

Carbon - 12	Carbon - 13
98.93%	1.07%

How to calculate the Weighted Average

1) convert the percent to a decimal (divide by 100)
2) multiply this number by each mass (follow sig figs)
3) add these new numbers together (follow sig figs)

Complete the Average Atom Mass assignment in Google classroom.