

## **Unit 3H Isotope Practice Problems**

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	gpb.org/chemistry-	matters	Date:			
1.	1. A student looked up the naturally occurring isotopes of bromine and found the following information: 50.54% of the naturally occurring isotopes of bromine have an atomic mass of 78.92 u while 49.46% of the naturally occurring isotopes of bromine have an atomic mass of 80.92 u.					
	Calculate the average atomic mass of bromine, showing all work:					
2.	<ul> <li>Using the following data, calculate the average atomic mass of magnesium (give your answer to the nearest .01 u): Show all work!</li> </ul>					
	Isotope: <sup>24</sup> / <sub>12</sub> Mg	Percent abundance:	78.70%			
	Isotope: 25 Mg	Percent abundance:	10.13%			
	Isotope: <sup>26</sup> / <sub>12</sub> Mg	Percent abundance:	11.17%			
3.	Using the periodic table,					
	What is the average atomi	c mass of bromine? _				
	What is the average atomi	c mass of magnesium	?			
Но	How do your calculated answers in #1 and #2 compare to those on the periodic table					