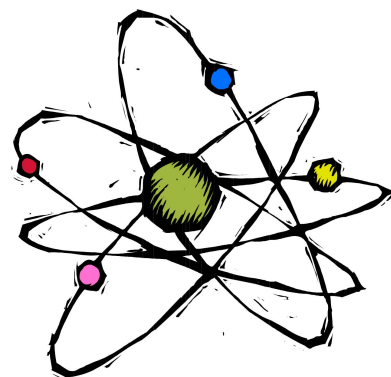


## All About the Nucleus - Classwork

(prep work if you don't finish)

1. What is the approximate mass of a proton? \_\_\_\_\_  
Where are protons located in an atom? \_\_\_\_\_
2. What is the approximate mass of a neutron? \_\_\_\_\_  
Where are neutrons located in an atom? \_\_\_\_\_
3. What is the approximate mass of an electron? \_\_\_\_\_  
Where are electrons located in an atom? \_\_\_\_\_
4. How do you calculate the mass of an atom? \_\_\_\_\_



5. Please complete the following chart

	Element	Atomic Symbol	Atomic Number	Number of Protons	Number of Neutrons	Mass Number	Nuclear Symbol
1		Cr			26		
2				37		85	
3							$^{28}_{14}\text{Si}$
4	Rubidium				40		
5			53			125	

6. Which of the two atoms in the chart above are Isotopes of one another? How do you know?

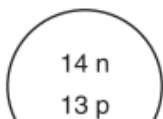
7. Define ISOTOPE - you really, really, really need to know this one!

8. Which diagram represents the nucleus of an atom of  $^{27}\text{Al}$ ?

A.



B.



C.



D.

