## Isotopes of Elements

Name -	
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1.) What is the difference between a hydrogen atom and a proton?

2.) The neutron was discovered long after the proton and electron. Why was it so hard to discover?

3.) Explain the difference between the atomic number and the mass number.

## 4.) Fill the following table:

<u>Isotope Name</u>	Symbol	Number of Protons	Number of Neutrons
Astatine-211	211 85 A†	85	126
		92	143
Magnesium-25			
	$\frac{209}{86}$ Rn		
Chlorine-37	37 17		
Deuterium			
	$\frac{30}{14}$ Si		
Palladium-102			
		53	74
Tantalum-180			

5.) Write a definition of an isotope in your own words.
6.) Chlorine occurs naturally as either chlorine-35 or chlorine-37. What is the difference between the two isotopes?