## **History of the Atom Quiz Review**

1)	How did the early Greek model of the atom differ than that of Dalton?
2)	Which of Dalton's beliefs about the atom are wrong? Explain why.
3)	Sketch Thomson's cathode ray apparatus and explain what it proved.
4)	Why were alpha particles deflected in Rutherford's gold foil experiment?
5)	Which element has 45 protons?
6)	Why would it be unreasonable for me to ask "Which element has 45 neutrons?" on a quiz?

- 7) When writing atomic symbols, why don't we usually write the atomic number?
- 8) Why are neutrons present in the nucleus?
- 9) Fill in the blanks with the appropriate numbers/symbols:

Element	Atomic number	Atomic mass	Protons	Neutrons	Electrons
Al				13	
<sup>14</sup> Mg					
	20	40			
			43	57	
		106			46
<sup>185</sup> W					
	65			93	
Es		253			

Element A has three isotopes. <sup>225</sup>A has an abundance of 20.04% and a mass of 225.11 amu. <sup>226</sup>A has an abundance of 45.23% and a mass of 226.10 amu. <sup>228</sup>A has an abundance of 34.73% and a mass of 228.11 amu. What is the average atomic mass of element A?