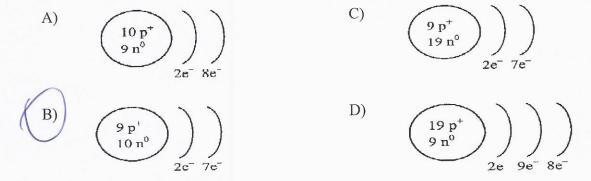
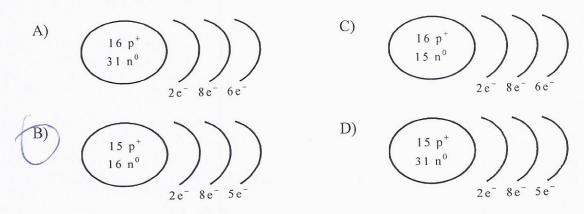
Enriched Atomic Model Worksheet

1. The atomic number of fluorine (F) is 9 and its mass number is 19. Which of the following diagrams correctly represents the simplified model of a fluorine atom?



2. Which of the following diagrams represents the simplified atomic model of the phosphorus atom, $^{31}_{15}P$?



- 3. Which of the following characteristics describe an atom in terms of the simplified model?
- 1. The number of electrons is equal to the number of protons.
- 2. The number of protons is equal to the number of neutrons.
- 3. The nucleus is made up of neutrons, protons and electrons.
- 4. The nucleus is made up of neutrons and electrons.
- 5. The nucleus is made up of protons and neutrons.
- 6. Protons revolve around the nucleus.
- 7. Electrons revolve around the nucleus.
 A) 1, 2 and 3
 B) 1, 4 and 6
 C) 1, 5 and 7
 D) 2, 5 and 7
 - 4. What is the mass number of an element?
 - A) It is the number of neutrons only.
 - B) It is the number of electrons only.
- C It is the sum of the protons and neutrons.
- D) It is the sum of the protons and electrons.

5. The atomic number combination of parti	of the element potas	ssium (K) the simpli	is 19 and its m ified Rutherfor	ass number is 40. W d-Bohr model of the	hich	
potassium atom? A) 19 protons, 21 neutrons, 19 electrons			C) 40 protons, 19 neutrons, 40			
electrons B) 19 protons, 40 neutr	B) 19 protons, 40 neutrons, 19 electrons			D) 40 protons, 21 neutrons, 21		
d- Which element l e- Which element l f- Which element l	nas 6 protons? nas 22 neutrons? nas a mass number on nas 20 electrons? has 14 for its atomic			Carbon Co Corpon ar Magnesijn H Calcium Co Si Silicon N Nitroger Aluminum	S +Silicen	
c- An element will d- Two different el e- Two different el f- Hydrogen has no	always have the sar always have the sar always have the sar ements can have the ements can have the o neutrons when do has its own specific	me numbe me numbe e same nu e same nu ing the sir	er of protons are of electrons are mber of proton mber of neutro mplified atomic	and neutronsinsins		
8. Find two different s number of neutrons	•				P+S=16	
Boron + Cort Flourine + 9. Make a simplified a		Plunis	un + Sili	vesuin = 12	P+S=16 K+Ca=2	
Sodium (Na)	Boron (B)	Argo	on (Ar)	Hydrogen (H)		
(11 p+ 12n ²))))	(5p+) (6n0)	3	(18p+) 22no)	(1p+ (0n°		
281						