

Answer key

Text book& Workbook

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Q1:

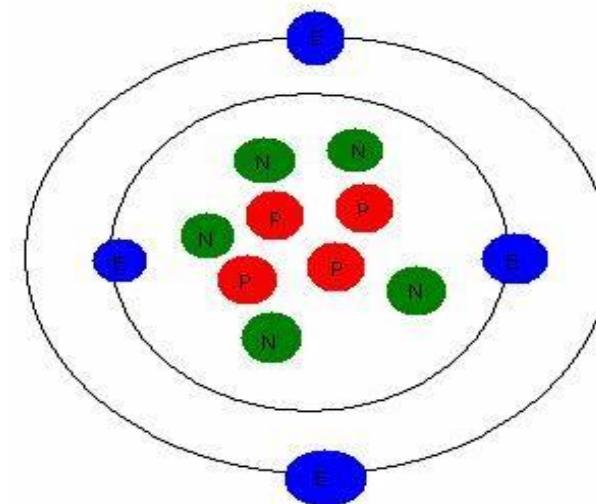
Protons/ positive

Electrons/ negative

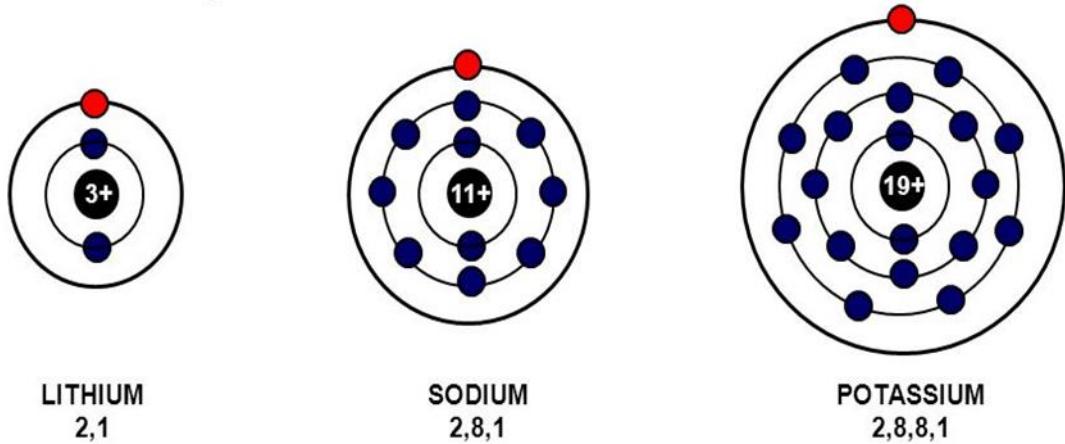
Neutrons/ neutral

Q2: protons and neutrons.

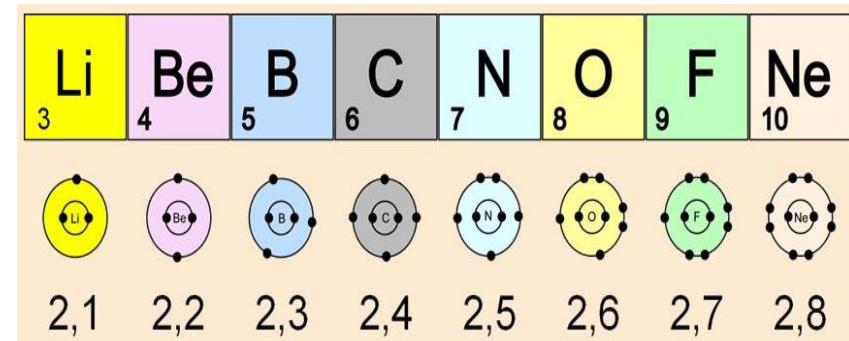
Q3&4: It has the same amount of +ve and –ve charges



Q1: They all have 1 electron in the outer shell



Q3: The amount of electrons increases by 1 each time



Q2: They all have full outer shells

Noble Gas	Electronic Configuration
Helium He (2)	2
Neon Ne (10)	2, 8*
Argon Ar (18)	2, 8, 8*

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Q1:

Proton number: 15

Nucleon number: $15+16=31$

Q2:

Number of protons: $19p+$

Number of neutrons: $39-19=20n$

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Q1:

- a) A,B,C&F
- b) D& E
- c) G

Q2:

Nucleus, mass, positive, electrons, orbits

Q3:

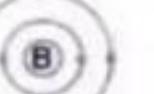
- 1- c
- 2- b
- 3- a

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Q2

		2
	3	
		2,3
		2,5
		2,7
	12	
		2,8,4
		2,8,6

Make sure to show the number of protons in the nucleus

 Hydrogen (1)	 Helium (2)	 Lithium (2.1)	 Beryllium (2.2)	 Boron (2.3)
 Carbon (2.4)	 Nitrogen (2.5)	 Oxygen (2.6)	 Fluorine (2.7)	 Neon (2.8)
 Sodium (2.8.1)	 Magnesium (2.8.2)	 Aluminium (2.8.3)	 Silicon (2.8.4)	 Phosphorus (2.8.5)
 Sulphur (2.8.6)	 Chlorine (2.8.7)	 Argon (2.8.8)	 Potassium (2.8.8.1)	 Calcium (2.8.8.2)

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Q1

1- c

2- a

3- a

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Q3

			0
Helium		4	
Beryllium			5
Nitrogen		14	
Sodium			12
Sulfur		32	
		48	