

**Atomic Structure and Periodic Table KBT 1** Date Completed:.....

	<b>Question</b>	<b>Answer</b>
1	What is an atom?	
2	What is a compound?	
3	What is an element and what are the 2 types of element?	
4	What are the three subatomic particles of an atom?	
5	What are the charges on the subatomic particles?	
6	What are the masses of the subatomic particles?	
7	Where in the atom would you find the subatomic particles?	
8	What is the electron configuration for calcium?	
9	Give three properties of non-metals	
10	Give three properties of metals	
11	What is the product of the following reaction: lithium + oxygen →	
12	What is the product of the following reaction: sodium + oxygen + sulfur →	
13	How many different atoms and different elements in $\text{AgNO}_3$ and what's its name?	
14	What is the formula of magnesium chloride? (Ions: $\text{Mg}^{2+}$ and $\text{Cl}^-$ )	
15	What does conservation of mass mean?	
16	What is the trend in reactivity in group 1?	
17	What is the trend in reactivity in group 7?	
18	What are group 1 metals also known as?	
19	What are group 7 elements also known as?	
20	What are group 0 elements also known as?	
	<b>Total marks</b>	<b>/20</b>

**Atomic Structure and Periodic Table KBT 2** Date Completed:.....

	Question	Answer
1	What is an atom?	
2	What is a compound?	
3	What is an element and what are the 2 types of element?	
4	What are the three subatomic particles of an atom?	
5	What are the charges on the subatomic particles?	
6	What are the masses of the subatomic particles?	
7	Where in the atom would you find the subatomic particles?	
8	What is the electron configuration for calcium?	
9	Give three properties of non-metals	
10	Give three properties of metals	
11	What is the product of the following reaction: lithium + oxygen →	
12	What is the product of the following reaction: sodium + oxygen + sulfur →	
13	How many different atoms and different elements in $\text{AgNO}_3$ and what's its name?	
14	What is the formula of magnesium chloride? (Ions: $\text{Mg}^{2+}$ and $\text{Cl}^-$ )	
15	What does conservation of mass mean?	
16	What is the trend in reactivity in group 1?	
17	What is the trend in reactivity in group 7?	
18	What are group 1 metals also known as?	
19	What are group 7 elements also known as?	
20	What are group 0 elements also known as?	
	<b>Total marks</b>	<b>/20</b>

**Atomic Structure and Periodic Table KBT 3** Date Completed:.....

	Question	Answer
1	What is an atom?	
2	What is a compound?	
3	What is an element and what are the 2 types of element?	
4	What are the three subatomic particles of an atom?	
5	What are the charges on the subatomic particles?	
6	What are the masses of the subatomic particles?	
7	Where in the atom would you find the subatomic particles?	
8	What is the electron configuration for calcium?	
9	Give three properties of non-metals	
10	Give three properties of metals	
11	What is the product of the following reaction: lithium + oxygen →	
12	What is the product of the following reaction: sodium + oxygen + sulfur →	
13	How many different atoms and different elements in $\text{AgNO}_3$ and what's its name?	
14	What is the formula of magnesium chloride? (Ions: $\text{Mg}^{2+}$ and $\text{Cl}^-$ )	
15	What does conservation of mass mean?	
16	What is the trend in reactivity in group 1?	
17	What is the trend in reactivity in group 7?	
18	What are group 1 metals also known as?	
19	What are group 7 elements also known as?	
20	What are group 0 elements also known as?	
	<b>Total marks</b>	<b>/20</b>

## Atomic Structure and Periodic Table (8CP) – Answers

	Question	Answer
1	What is an atom?	The simplest form of a substance. All matter is composed of atoms.
2	What is a compound?	Two or more different elements that are chemically bonded.
3	What is an element and what are the 2 types of element?	A substance made up of only one type of atom. Metal and Non-metals.
4	What are the three subatomic particles of an atom?	Proton, neutron, electron.
5	What are the charges on the subatomic particles?	Proton = positive, neutron = no charge, electron = negative.
6	What are the masses of the subatomic particles?	Proton = 1, neutron = 1, electron = 0.
7	Where in the atom would you find the subatomic particles?	Proton = nucleus, neutron = nucleus, electron = shell.
8	What is the electron configuration for calcium?	2.8.8.2
9	Give three properties of non-metals	Dull, soft, weak, low melting point, do not conduct electricity, poor at conducting heat.
10	Give three properties of metals	Shiny, hard, strong, high melting points, conduct electricity, conduct heat.
11	What is the product of the following reaction: lithium + oxygen →	Lithium oxide
12	What is the product of the following reaction: sodium + oxygen + sulfur →	Sodium sulfate
13	How many different atoms and different elements in AgNO <sub>3</sub> and what's its name?	Atoms = 5 Elements = 3 Silver Nitrate
14	What is the formula of magnesium chloride? (Ions: Mg <sup>2+</sup> and Cl <sup>-</sup> )	MgCl <sub>2</sub>
15	What does conservation of mass mean?	Atoms are not lost or gained. The mass of the reactants is always the same as the mass of the products.
16	What is the trend in reactivity in group 1?	They get more reactive as you move down the group.
17	What is the trend in reactivity in group 7?	They get less reactive as you move down the group.
18	What are group 1 metals also known as?	Alkali Metals.
19	What are group 7 elements also known as?	Halogens.
20	What are group 0 elements also known as?	Noble Gases.
	<b>Total marks</b>	<b>/20</b>