

Chemical Bonding Review Worksheet

1. Define valence electrons. How are they involved in the formation of ionic and covalent bonds?

2. Fill in the table with the appropriate information.

Group in Periodic Table	Valence Electrons
1	
2	
3	
4	
5	
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18	

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Answers

1. Define valence electrons. How are they involved in the formation of ionic and covalent bonds?

The electrons in an atom's outermost shell, capable of participating in chemical bonding, are known as valence electrons. When an ionic bond is formed, a metal will transfer its valence electrons to a non-metal to achieve stability. When a covalent bond is formed, two or more non-metals will share electrons to become stable.

2. Fill in the table with the appropriate information.

Group in Periodic Table	Valence Electrons
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	3
14	4
15	5
16	6
17	7
18	8 (except for helium which has 2)