

Please answer the following questions:

1. A methane molecule (CH_4) is an example of a covalent bond because _____.
2. Ionic bonds form between what types of elements?
3. Covalent bonds form between what types of elements?
4. Which of the below elements will most likely form an Ionic Bond?
 - a. P and O
 - b. S and O
 - c. Ca and Cl
 - d. Ne and Cl
5. How many atoms are in CaCl_2 ?
6. When Calcium forms a bond, what will occur?
7. Which of the below elements will most likely form a Covalent Bond?
 - a. Na and Cl
 - b. Al and Mg
 - c. H and O
 - d. K and Na
8. The force that holds two atoms together is called a _____.
9. How many electrons does chlorine need to gain in order to have a full outer shell?
10. A charged Particle is called an _____.