

Name _____ Date _____ Period _____ AGS WB 78

12:5 Interparticle Forces

Directions Match the items in column A with those in column B. Write the letter of each correct answer on the line.

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|--|---------------------------|
| _____ 1. A permanent force between two polar molecules | A dipole-dipole force |
| _____ 2. The cause of all five attractive forces | B London dispersion force |
| _____ 3. Occurs between a cation and an anion | C hydrogen bonding |
| _____ 4. Caused by a temporary closeness of electrons within a particle | D ionic bonding |
| _____ 5. Between a hydrogen in one polar molecule and the negative end of another polar particle | E metallic bonding |
| _____ 6. Occurs when a sea of freely moving electrons holds metal atoms together | F polarity |

Directions Answer each question. Use complete sentences.

7. Why is ionic bonding considered a bond type and an attractive force?
8. Why do metals and ionic compounds share some properties?
9. Why are London dispersion forces so weak?
10. A substance is a brittle solid at room temperature. The substance can conduct electricity when melted or dissolved and has a high boiling point. What kind of attractive forces are occurring in the substance?