

Name _____

The Magical World of Van der Waals Forces

Multiple Choice Questions

1. What are Van der Waals forces?
 - a) The forces that hold atoms together within a molecule
 - b) The forces of attraction between molecules
 - c) The forces that push molecules apart
 - d) The forces that create heat in chemical reactions

2. Which type of Van der Waals force occurs in all molecules, including nonpolar ones?
 - a) Dispersion forces
 - b) Dipole-dipole forces
 - c) Hydrogen bonding
 - d) Ionic bonding

3. In which type of molecule do you find dipole-dipole forces?
 - a) Nonpolar molecules
 - b) Polar molecules
 - c) Ionic compounds
 - d) Metallic compounds

4. What is the strongest type of Van der Waals force?
 - a) Dispersion forces
 - b) Dipole-dipole forces
 - c) Hydrogen bonding
 - d) Covalent bonding

5. Why do geckos have the ability to climb walls using Van der Waals forces?
 - a) Because they have sticky feet
 - b) Because they have strong muscles
 - c) Because tiny hairs on their feet create interactions with surfaces
 - d) Because they have magnetic feet

