

Name _____

Molecule Marvels: The Fascinating Concept of Resonance

Short Answer

1. Explain the concept of resonance in molecules using the example of benzene, including the role of electron delocalization.
2. Why are molecules with resonance structures more stable than molecules without them?
3. Describe the importance of understanding resonance in chemistry and how it helps predict the behavior of molecules.
4. Provide an example of a molecule other than benzene that exhibits resonance, and explain why it has multiple resonance forms.
5. How does the delocalization of electrons contribute to the stability of molecules with resonance structures?

