

QUIZ

Comparing Ionic and Molecular Compounds

- Which of the following pair of elements is most likely to form a molecular compound?
 - barium and chlorine
 - manganese and oxygen
 - sulfur and fluorine
 - magnesium and nitrogen
- Which of the substances can be **best** characterized as having a high melting point and the ability to conduct electricity in molten state?
 - carbon monoxide (CO)
 - sodium fluoride (NaF)
 - diamond (C)
 - sucrose (C₁₂H₂₂O₁₁)
- Which of the following compounds has the highest melting point?
 - CO, weak dispersion forces
 - HF, hydrogen bonds
 - CaO, ionic bonds
- Which of the following compounds will have the highest melting point?
 - carbon dioxide (molecular compound)
 - sodium chloride (ionic compound)
 - silicon carbide (covalent network compound)
- A museum curator receives a green artifact for restoration. Upon scratching the surface, shiny copper metal is exposed. He determines that the green substance on the copper artifact is patina. Patina is a thin layer formed due to oxidation of copper to copper oxide (CuO).

Which of the following represents the type of bonding in copper oxide?

- ionic
- metallic
- covalent
- covalent network