

Semester 1 Final Review Quiz: Units 3 and 4

Name: _____ Period: _____

- What is the correct charge for the aluminum ion?
 - Al^{-3}
 - Al
 - Al^{+3}
 - Al^{+2}
- Which of the following is NOT an ionic compound?
 - Na_2O
 - PbS_4
 - NH_4Cl
 - CO
- Which of the following is NOT a property of a covalent compound?
 - low boiling point
 - high melting point
 - formed by shared pairs of electrons
 - usually a liquid or gas at room temperature
- What is the correct name for CuS ?
 - copper sulfide
 - copper (I) sulfide
 - copper monosulfide
 - copper (II) sulfide
- What is the total charge on the cation in the ionic compound sodium sulfide?
 - 0
 - 1+
 - 2+
 - 3+
- How many valence electrons are transferred from a single potassium atom when it forms an ionic compound?
 - 0
 - 1
 - 2
 - 3
- Which of the following represent a correct formula?
 - ClK
 - K_3SO_4
 - AgF_2
 - FePO_4
- The predicted molecular shape for PCl_3 is _____.
 - trigonal pyramidal
 - trigonal planar
 - bent
 - linear
- How many unshared pairs are on the chlorine atom in ClF_3 ?
 - 0
 - 1
 - 2
 - 3
- The number of valence electrons in the polyatomic ion HPO_4^{2-} is?
 - 2
 - 34
 - 32
 - 36
- Which of the following would contain a double bond?
 - SF_2
 - H_2O
 - N_2
 - CO_2
- Which of the following has the highest boiling point?
 - NH_3
 - CH_4
 - H_2O
 - CaCl_2
- Which of the following is a polar molecule?
 - CCl_4
 - SrCl_2
 - H_2O
 - CO_2
- How many resonance forms are possible for the NO_3^- ion?
 - 1
 - 2
 - 3
 - 4
- Which of the following contains no lone pairs on the central atom?
 - SO_2
 - NH_3
 - BrF_3
 - HCN

