

Physical Science 10
**Chemistry Exam Review #1: Bohr Diagrams, Naming and Writing Formulas for Compounds,
Balancing Equations**

1. Explain the difference between an atom, element and compound giving an example of each.

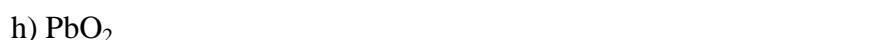
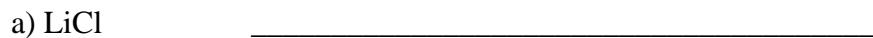
2. Draw each of the following Bohr Diagrams
a) Al b) C c) Mg⁺² d) N³⁻ e) Cl¹⁻

3. Write the names of the following molecular compounds:
a) CO₂ _____
b) N₂O₅ _____
c) PF₅ _____
d) NH₃ _____
e) CCl₄ _____

4. Write the formulas for the following molecular compounds:
a) dinitrogen monoxide _____
b) diphosphorous hexabromide _____
c) sulfur dioxide _____
d) silicon tetrahydride _____
e) nitrogen diselenide _____

5. Balance the following equations
a) ____ Br₂ + ____ K₂S → ____ KBr + ____ S₈
b) ____ C₈H₁₈ + ____ O₂ → ____ CO₂ + ____ H₂O
c) ____ NaCl → ____ Na + ____ Cl₂
d) ____ Na₂CO₃ + ____ CaCl₂ → ____ CaCO₃ + ____ NaCl
e) ____ Fe₂O₃ → ____ Fe + ____ O₂
f) ____ Al + ____ HCl → ____ H₂ + ____ AlCl₃
g) ____ Au + ____ HNO₃ + ____ HCl → ____ AuCl₃ + ____ NO + ____ H₂O

6. Write the names of the following ionic compounds:



7. Write the formulas for the following ionic compounds:

