

Unit 4 Review

Prep

1. What are some properties of metals?
2. What are some properties of nonmetals?
3. How are electrons distributed in ionic compounds?
4. How are electrons distributed in covalent compounds?
5. Write the formula for the following **ionic** compounds.

a. Potassium iodide	_____	b. barium sulfide	_____
c. sodium chloride	_____	d. aluminum sulfide	_____
e. magnesium chloride	_____	f. aluminum fluoride	_____
g. lead (II) bromide	_____	h. chromium (II) bromide	_____
i. copper (II) oxide	_____	j. gold (III) iodide	_____
k. plutonium (V) chloride	_____	l. nickel (II) fluoride	_____
m. barium sulfate	_____	n. beryllium cyanide	_____
o. cobalt (II) phosphate	_____	p. titanium (III) nitrate	_____
q. strontium borate	_____	r. potassium hydroxide	_____

6. Name the following **ionic** compounds.

- | | | | |
|-------------------------|-------|--------------------------------------|-------|
| a. BaCl ₂ | _____ | b. Na ₂ Se | _____ |
| c. MgO | _____ | d. BaS | _____ |
| e. NaF | _____ | f. AlN | _____ |
| g. CuS | _____ | h. SnS | _____ |
| i. PbO ₂ | _____ | j. NiBr ₂ | _____ |
| k. MnF ₂ | _____ | l. CrO | _____ |
| m. NaNO ₃ | _____ | n. BaHPO ₄ | _____ |
| o. HgClO ₂ | _____ | p. LiClO ₃ | _____ |
| q. Fe(OCN) ₃ | _____ | r. Sr(NO ₂) ₂ | _____ |

7. Write the formula for the following **ACIDS**.

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|----------------------|-------|--------------------|-------|
| a. hydrofluoric acid | _____ | b. hydroiodic acid | _____ |
| c. phosphoric acid | _____ | d. bromic acid | _____ |
| e. oxalic acid | _____ | f. carbonous acid | _____ |

8. Name the following **ACIDS**.

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|----------------------|-------|-----------------------------------|-------|
| a. HCl | _____ | b. HNO ₃ | _____ |
| c. HClO ₃ | _____ | d. H ₂ SO ₃ | _____ |
| e. HCN | _____ | f. HIO ₂ | _____ |

9. Write the formula for the following **Covalent** Compounds.

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|----------------------|-------|--------------------------|-------|
| a. nitrogen trioxide | _____ | b. phosphorous triiodide | _____ |
| c. sulfur monoxide | _____ | d. nitrogen | _____ |
| e. fluorine | _____ | f. carbon tetrabromide | _____ |

10. Name the following **Covalent** Compounds.

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|----------------------------------|-------|--------------------|-------|
| a. SO ₃ | _____ | b. PF ₅ | _____ |
| c. F ₂ O ₂ | _____ | d. CO | _____ |
| e. Cl ₂ | _____ | f. SF ₆ | _____ |