

CHEMICAL SYMBOLS AND FORMULA WORKSHEET NAME: _____

1. Why are symbols useful in describing chemicals?
2. What two things does a chemical formula tell us about a compound?
3. Write the chemical formula for the following:
 - a. A molecule of carbon dioxide is made up of 1 atom of carbon and 2 atoms of oxygen.
 - b. A molecule of aspirin that is made up of 9 atoms of carbon, 8 atoms of hydrogen, and 4 atoms of oxygen
 - c. A molecule of sugar that is made up of 6 atoms of carbon, 12 atoms of hydrogen and 6 atoms of oxygen
4. Fill in the following table:

| Name | Formula | # of Different Elements | # of Each Type of Atom in the Formula |
|---------------------|---|-------------------------|---------------------------------------|
| Acetic acid | C ₂ H ₄ O ₂ | 3 | C=2 H=4 O=2 |
| Paradichlorobenzene | C ₆ H ₄ O ₂ | | |
| Pyrite | FeS ₃ | | |
| Sucrose | CH ₁₂ O ₆ | | |
| Butane | C ₄ H ₁₀ | | |
| Asbestos | H ₄ Mg ₂ Si ₂ O ₉ | | |
| Sulfuric Acid | H ₂ SO ₄ | | |