

**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 <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	3	C=2    H=4    O=2
Paradichlorobenzene	C <sub>6</sub> H <sub>4</sub> O <sub>2</sub>		
Pyrite	FeS <sub>3</sub>		
Sucrose	CH <sub>12</sub> O <sub>6</sub>		
Butane	C <sub>4</sub> H <sub>10</sub>		
Asbestos	H <sub>4</sub> Mg <sub>2</sub> Si <sub>2</sub> O <sub>9</sub>		
Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>		