

## Writing formulae from the names of compounds

### MATERIALS:

play dough

### INSTRUCTIONS:

1. What formula/name would you give the following compounds? Write the formula/name next to each name in the table below.
2. Build a model of each compound with play dough.
3. Draw a picture of one molecule of each compound in the final column of the table

FORMULA OF COMPOUND	NAME OF COMPOUND	PICTURE OF ONE MOLECULE
CO <sub>2</sub>	carbon dioxide	
PF <sub>3</sub>	phosphorus trifluoride	
SF <sub>4</sub>	sulfur tetrafluoride	
CCl	copper chloride	
CO <sub>2</sub>	Carbon dioxide	
HF	hydrogen fluoride	
H <sub>2</sub> S	dihydrogen sulfide	
SO <sub>3</sub>	sulfur trioxide	
CO	carbon monoxide	
NH <sub>3</sub>	Ammonia nitrogen hydride	
CO <sub>2</sub>	carbon dioxide	
CuCl <sub>2</sub>	copper dichloride	

$\text{SO}_2$	<b>Sulfur dioxide</b>	
<b>NaCl</b>	sodium chloride	
<b>N<sub>2</sub>O</b>	dinitrogen monoxide	
<b>SO<sub>3</sub></b>	sulfur trioxide	
<b>CO</b>	carbon monoxide	
$\text{SF}_4$	<b>Sulfur tetrafluoride</b>	
$\text{NO}_2$	<b>Nitrogen dioxide</b>	
$\text{Fe}_2\text{O}_3$	<b>Ferric oxide</b> <b>Iron (III) oxide</b>	
$\text{Na}_2\text{O}$	<b>sodium oxide</b>	
<b>H<sub>2</sub>O</b>	<b>Water</b> <b>dihydrogen monoxide</b>	