

**Chemical Bonding Worksheet**

9/10

Name: \_\_\_\_\_  
 Date: \_\_\_\_\_

Section: \_\_\_\_\_  
 Teacher: \_\_\_\_\_

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Indicate if the elements in the following compounds are metals or non-metals. Describe the type of bonding that occurs in the compound.

Compound	Element 1 (Metal or Non-Metal?)	Element 2 (Metal or Non-Metal?)	Bond Type
NaCl	Na - metal	Cl - non-metal	ionic
H <sub>2</sub> O	H - non-metal	O - non-metal	covalent
Na <sub>2</sub> S	Na - metal	S - non-metal	ionic
CH <sub>4</sub>	C - non-metal	H - non-metal	covalent
CaO	Ca - metal	O - non-metal	ionic
Fe	Fe - metal	Fe - metal	metallic
CO <sub>2</sub>	C - non-metal	O - non-metal	covalent
Si	Si - non-metal	Si - non-metal	covalent
CaS	Ca - metal	S - non-metal	ionic
Na <sub>2</sub> O	Na - metal	O - non-metal	ionic
Al	Al - metal	Al - metal	metallic
Fe <sub>2</sub> O <sub>3</sub>	Fe - metal	O - non-metal	ionic
CH <sub>3</sub> OH	C - non-metal	H - non-metal	covalent
Na <sub>2</sub> SO <sub>4</sub>	Na - metal	S - non-metal	ionic
CaF <sub>2</sub>	Ca - metal	F - non-metal	ionic
CO	C - non-metal	O - non-metal	covalent