

Names: _____

Period _____

Arrange the atoms on the table provided from largest to smallest going down the column. The column numbers should match the number of valence electrons for the atom.

1. What do you notice about your arrangement and the periodic table?

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1. Balance the following equation: $\text{CH}_4 + __\text{O}_2 \longrightarrow \text{CO}_2 + __\text{H}_2\text{O}$

2. create the equation using the atoms provided. Take a picture of the reatants:
 $\text{CO}_2 + __\text{H}_2\text{O}$
and attach the photo to the schoology assignment.

Take a picture of the products:

$\text{CH}_4 + __\text{O}_2$
and attach the photo to the schoology assignment.

Use the atoms to create a NaCl molecule and a H₂O molecule

1. Dissolve the salt in a beaker of water. Record your observations:
2. Observe the strength of the bonds in the model of NaCl and the model of H₂O. Highlight or circle the molecule with the stronger bonds:
 $\text{NaCl} + \text{H}_2\text{O}$