

Name _____ Period _____

College Prep Chemistry of the Earth

Assignment 3D – Single Covalent Bonds (Part 2)

20 Points

Complete the dot and structural formula for the following simple molecules elements.

OC _l 2	HSF
Covalent Compound Dot Structure	Covalent Compound Dot Structure
<p>Handwritten notes: A red circle around the Oxygen atom with the text "6A, 6 val e-". An arrow points from the Oxygen atom to the text "Face other atom".</p>	<p>H S</p> <p>F</p>
Covalent Compound Structural Formula	Covalent Compound Structural Formula
<p>Handwritten notes: A red circle around the Oxygen atom with the text "7A, 7 val e-". An arrow points from the Oxygen atom to the text "replaces the two shared e-".</p>	<p>H — S</p> <p> </p> <p> F</p>

HNF ₂	H ₂ PBr
Covalent Compound Dot Structure	Covalent Compound Dot Structure
<p>H N F</p> <p>F</p>	<p>H P Br</p> <p>H</p>
Covalent Compound Structural Formula	Covalent Compound Structural Formula
<p>H — N — F</p> <p> </p> <p> F</p>	<p>H — P — Br</p> <p> </p> <p> H</p>

Complete the dot and structural formula for the following simple molecules elements.

CH ₄	CCl ₂ F ₂
Covalent Compound Dot Structure	Covalent Compound Dot Structure
$ \begin{array}{c} \text{H} \\ \\ \text{H} \quad \text{C} \quad \text{H} \\ \\ \text{H} \end{array} $	$ \begin{array}{c} \text{Cl} \\ \\ \text{Cl} \quad \text{C} \quad \text{F} \\ \\ \text{F} \end{array} $
Covalent Compound Structural Formula	Covalent Compound Structural Formula
$ \begin{array}{c} \text{H} \\ \\ \text{H} - \text{C} - \text{H} \\ \\ \text{H} \end{array} $	$ \begin{array}{c} \text{Cl} \\ \\ \text{Cl} - \text{C} - \text{F} \\ \\ \text{F} \end{array} $

CH ₃ Br	
Covalent Compound Dot Structure	Covalent Compound Structural Formula
$ \begin{array}{c} \text{H} \\ \text{O} \times \\ \text{H} \times \quad \text{C} \quad \text{Br} \\ \text{O} \quad \times \text{O} \\ \text{H} \end{array} $	$ \begin{array}{c} \text{H} \\ \\ \text{H} - \text{C} - \text{Br} \\ \\ \text{H} \end{array} $

