

Name Mel

Locker # \_\_\_\_\_

**Bonding & Molecular Structure****LEWIS STRUCTURES**

Indicate the total # of VALENCE electrons for each molecule (VE's). Calculate the number of bonded electrons from the skeleton (BE's). Calculate the Remaining Electrons (RE's = VE's - BE's) and distribute the remaining electrons onto the skeletal structure. Finally, satisfy the octets by creating double and triple bonds. Your final structures should be given below and your scratch paper should clearly show your work.

$\text{F}_2$ VE's = <u>14</u> BE's = <u>2</u> RE's = <u>12</u> $\text{:}\ddot{\text{F}}-\ddot{\text{F}}\text{:}$	$\text{H}_2$ VE's = <u>2</u> BE's = <u>2</u> RE's = <u>0</u> $\text{H}-\text{H}$	$\text{HF}$ VE's = <u>8</u> BE's = <u>2</u> RE's = <u>6</u> $\text{H}-\ddot{\text{F}}\text{:}$	$\text{NH}_3$ VE's = <u>8</u> BE's = <u>6</u> RE's = <u>2</u> $\begin{array}{c} \text{H} \\   \\ \text{H}-\text{N}-\text{H} \\   \\ \text{H} \end{array}$
Shape: <u>linear</u>	Shape: <u>linear</u>	Shape: <u>linear</u>	Shape: <u>trigonal pyramidal</u>
$\text{CH}_4$ VE's = <u>8</u> BE's = <u>8</u> RE's = <u>0</u> $\begin{array}{c} \text{H} \\   \\ \text{H}-\text{C}-\text{H} \\   \\ \text{H} \end{array}$	$\text{C}_2\text{H}_6$ VE's = <u>14</u> BE's = <u>14</u> RE's = <u>0</u> $\begin{array}{c} \text{H} \quad \text{H} \\   \quad   \\ \text{H}-\text{C}-\text{C}-\text{H} \\   \quad   \\ \text{H} \quad \text{H} \end{array}$	$\text{AlH}_3$ VE's = <u>6</u> BE's = <u>6</u> RE's = <u>0</u> $\begin{array}{c} \text{H}-\text{Al}-\text{H} \\   \\ \text{H} \end{array}$	$\text{BH}_3$ VE's = <u>6</u> BE's = <u>6</u> RE's = <u>0</u> $\begin{array}{c} \text{H} \\   \\ \text{H}-\text{B}-\text{H} \end{array}$
Shape: <u>tetrahedral</u>	Shape: <u>tetrahedral (both)</u>	Shape: <u>trigonal planar</u>	Shape: <u>trigonal planar</u>
$\text{C}_2\text{H}_4$ VE's = <u>12</u> BE's = <u>12</u> RE's = <u>0</u> $\begin{array}{c} \text{H} \quad \text{H} \\ \diagdown \quad / \\ \text{C}=\text{C} \\ / \quad \diagdown \\ \text{H} \quad \text{H} \end{array}$	$\text{C}_2\text{F}_4$ VE's = <u>36</u> BE's = <u>12</u> RE's = <u>24</u> $\begin{array}{c} \text{:}\ddot{\text{F}}\text{:} \quad \text{:}\ddot{\text{F}}\text{:} \\ \diagdown \quad / \\ \text{C}=\text{C} \\ / \quad \diagdown \\ \text{:}\ddot{\text{F}}\text{:} \quad \text{:}\ddot{\text{F}}\text{:} \end{array}$	$\text{CO}$ VE's = <u>10</u> BE's = <u>6</u> RE's = <u>4</u> $\text{:}\ddot{\text{C}}\equiv\ddot{\text{O}}\text{:}$	$\text{O}_2$ VE's = <u>12</u> BE's = <u>4</u> RE's = <u>8</u> $\text{:}\ddot{\text{O}}=\ddot{\text{O}}\text{:}$
Shape around one C: <u>trigonal planar</u>	Shape around one C: <u>trigonal planar</u>	Shape: <u>linear</u>	Shape: <u>linear</u>

# Lewis Dot Structure Work Sheet Answer Key

**JL Elias**



**Lewis Dot Structure Work Sheet Answer Key:**

## Unveiling the Magic of Words: A Review of "**Lewis Dot Structure Work Sheet Answer Key**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Lewis Dot Structure Work Sheet Answer Key**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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