

<p>1. H₂ 2e⁻</p> <p style="text-align: center;">H-H</p> <p>Shape: linear</p>	<p>7. SO₄²⁻</p> <p>6 + 24 + 2 = 32</p> <p style="text-align: center;"> $\left[\begin{array}{c} \text{:}\ddot{\text{O}}\text{:} \\ \text{:}\ddot{\text{O}}\text{-S-}\ddot{\text{O}}\text{:} \\ \text{:}\ddot{\text{O}}\text{:} \end{array} \right]^{-2}$ </p> <p>Shape: tetrahedral</p>
<p>2. CO</p> <p>4 + 6 = 10</p> <p style="text-align: center;">:C≡O:</p> <p>Shape: linear</p>	<p>8. HCN</p> <p style="text-align: center;">H-C≡N:</p> <p>Shape: linear</p>
<p>3. NCl₃</p> <p>5 + 21 = 26</p> <p style="text-align: center;"> $\begin{array}{c} \text{:}\ddot{\text{Cl}}\text{:} \\ \text{:}\ddot{\text{Cl}}\text{-}\ddot{\text{N}}\text{-}\ddot{\text{Cl}}\text{:} \\ \text{:}\ddot{\text{Cl}}\text{:} \end{array}$ </p> <p>Shape: trigonal pyramidal</p>	<p>9. ClO₃⁻</p> <p>7 + 18 + 1 = 26</p> <p style="text-align: center;"> $\left[\begin{array}{c} \text{:}\ddot{\text{O}}\text{:} \\ \text{:}\ddot{\text{O}}\text{-}\ddot{\text{Cl}}\text{-}\ddot{\text{O}}\text{:} \\ \text{:}\ddot{\text{O}}\text{:} \end{array} \right]^{-}$ </p> <p>Shape: trigonal pyramidal</p>
<p>4. NH₄⁺</p> <p>5 + 4 - 1 = 8</p> <p style="text-align: center;"> $\left[\begin{array}{c} \text{H} \\ \text{H}-\ddot{\text{N}}-\text{H} \\ \text{H} \end{array} \right]^{+}$ </p> <p>Shape: tetrahedral</p>	<p>10. COBr₂</p> <p>4 + 6 + 14 = 24</p> <p style="text-align: center;"> $\begin{array}{c} \text{:}\ddot{\text{O}}\text{:} \\ \text{:}\ddot{\text{Br}}\text{-}\ddot{\text{C}}\text{-}\ddot{\text{Br}}\text{:} \\ \text{:}\ddot{\text{Br}}\text{:} \end{array}$ </p> <p>Shape: trigonal planar</p>
<p>5. CHCl₃</p> <p>4 + 1 + 21 = 26</p> <p style="text-align: center;"> $\begin{array}{c} \text{:}\ddot{\text{Cl}}\text{:} \\ \text{H}-\ddot{\text{C}}-\ddot{\text{Cl}}\text{:} \\ \text{:}\ddot{\text{Cl}}\text{:} \end{array}$ </p> <p>Shape: tetrahedral</p>	<p>11. CH₂Br₂</p> <p>4 + 2 + 14 = 20</p> <p style="text-align: center;"> $\begin{array}{c} \text{H} \\ \text{H}-\ddot{\text{C}}-\ddot{\text{Br}}\text{:} \\ \text{:}\ddot{\text{Br}}\text{:} \end{array}$ </p> <p>Shape: tetrahedral</p>
<p>6. NF₃</p> <p>5 + 21 = 26</p> <p style="text-align: center;"> $\begin{array}{c} \text{:}\ddot{\text{F}}\text{:} \\ \text{:}\ddot{\text{F}}\text{-}\ddot{\text{N}}\text{-}\ddot{\text{F}}\text{:} \\ \text{:}\ddot{\text{F}}\text{:} \end{array}$ </p> <p>Shape: trigonal pyramidal</p>	<p>12. H₂O</p> <p>2 + 6 = 8</p> <p style="text-align: center;">H-O:</p> <p>Shape: bent</p>

<p>1. N_2 10</p> <p>$:N \equiv N:$</p> <p>Shape: linear</p>	<p>7. PH_3 $5 + 3 = 8$</p> <p>H $$ $H - P - H$ $$ H</p> <p>Shape: trigonal pyramidal</p>
<p>2. H_2O $2 + 6 = 8$</p> <p>$H - \overset{\cdot\cdot}{O} - H$</p> <p>Shape: bent</p>	<p>8. CH_3OH $4 + 3 + 6 + 1 = 14$</p> <p>H $$ $H - C - \overset{\cdot\cdot}{O} - H$ $$ H</p> <p>Shape: tetrahedral</p>
<p>3. CO_2 $4 + 2 \times 2 = 16$</p> <p>$:\overset{\cdot\cdot}{O} = C = \overset{\cdot\cdot}{O}:$</p> <p>Shape: linear</p>	<p>9. H_2S $2 + 6 = 8$</p> <p>$H - \overset{\cdot\cdot}{S} - H$</p> <p>Shape: bent</p>
<p>4. NH_3 $5 + 3 = 8$</p> <p>H $$ $H - N - H$ $$ H</p> <p>Shape: trigonal pyramidal</p>	<p>10. I_2 14</p> <p>$:\overset{\cdot\cdot}{I} - \overset{\cdot\cdot}{I}:$</p> <p>Shape: linear</p>
<p>5. CH_4 $4 + 4 = 8$</p> <p>H $$ $H - C - H$ $$ H</p> <p>Shape: tetrahedral</p>	<p>11. $CHCl_3$ $4 + 1 + 3 \times 1 = 26$</p> <p>H $$ $:\overset{\cdot\cdot}{Cl} - C - \overset{\cdot\cdot}{Cl}:$ $$ $:\overset{\cdot\cdot}{Cl}:$</p> <p>Shape: tetrahedral</p>
<p>6. SO_3 $6 + 3 \times 2 = 24$</p> <p>$:\overset{\cdot\cdot}{O} - S = \overset{\cdot\cdot}{O}$ $$ $:\overset{\cdot\cdot}{O}:$</p> <p>Shape: trigonal planar</p>	<p>12. O_2 12</p> <p>$:\overset{\cdot\cdot}{O} = \overset{\cdot\cdot}{O}:$</p> <p>Shape: linear</p>

<p>1. F₂ 14</p> $\begin{array}{c} \text{..} \quad \text{..} \\ \quad \\ \text{:F} - \text{F:} \\ \text{..} \quad \text{..} \end{array}$ <p>Shape: linear</p>	<p>7. NO₃⁻</p> $5 \times 18 + 1 = 24$ $\left[\begin{array}{c} \text{..} \\ \\ \text{:O} - \text{N} = \text{O:} \\ \text{..} \end{array} \right]^{-1}$ <p>Shape: trigonal planar</p>
<p>2. HCN</p> $1 + 4 + 5 = 10$ $\text{H} - \text{C} \equiv \text{N:}$ <p>Shape: linear</p>	<p>8. CCl₄</p> $4 \times 7 + 8 = 32$ $\begin{array}{c} \text{:Cl:} \\ \\ \text{:Cl} - \text{C} - \text{Cl:} \\ \\ \text{:Cl:} \end{array}$ <p>Shape: tetrahedral</p>
<p>3. PCl₃</p> $5 \times 2 + 2 = 12$ $\begin{array}{c} \text{:Cl:} \\ \\ \text{:Cl} - \text{P} - \text{Cl:} \\ \\ \text{:Cl:} \end{array}$ <p>Shape: trigonal pyramidal</p>	<p>9. SO₂</p> $6 + 12 = 18$ $\begin{array}{c} \text{:O:} \\ \backslash \\ \text{S} = \text{O:} \\ / \end{array}$ <p>Shape: bent</p>
<p>4. NH₃</p> $5 + 3 = 8$ $\begin{array}{c} \text{H} \\ \\ \text{H} - \text{N} - \text{H} \\ \text{..} \end{array}$ <p>Shape: trigonal pyramidal</p>	<p>10. Br₂</p> 14 $\begin{array}{c} \text{:Br:} \\ \\ \text{:Br} - \text{Br:} \\ \text{..} \end{array}$ <p>Shape: linear</p>
<p>C₂H₆</p> <p>5. C₂H₆</p> $8 + 8 = 16$ $\begin{array}{c} \text{H} \quad \text{H} \\ \quad \\ \text{H} - \text{C} - \text{C} - \text{H} \\ \quad \\ \text{H} \quad \text{H} \end{array}$ <p>Shape:</p>	<p>11. CH₂Cl₂</p> $4 + 2 \times 7 = 18$ $\begin{array}{c} \text{H} \\ \\ \text{H} - \text{C} - \text{Cl:} \\ \\ \text{Cl:} \end{array}$ <p>Shape: tetrahedral</p>
<p>6. O₂</p> 12 $\text{:O} = \text{O:}$ <p>Shape: linear</p>	<p>12. H₂O</p> $2 \times 1 + 8 = 10$ $\begin{array}{c} \text{H} \\ \\ \text{H} - \text{O:} \\ \\ \text{H} \end{array}$ <p>Shape: bent</p>

<p>1. I₂ 14</p> $: \ddot{\text{I}} - \ddot{\text{I}} :$ <p>Shape: linear</p>	<p>7. SF₂ 6 + 14 = 20</p> $: \ddot{\text{F}} - \ddot{\text{S}} - \ddot{\text{F}} :$ <p>Shape: bent</p>
<p>2.</p> <p>Shape:</p>	<p>8. ClO₂⁻ 7 + 12 + 1 = 20</p> $[: \ddot{\text{O}} - \ddot{\text{Cl}} - \ddot{\text{O}} :]^-$ <p>Shape: bent</p>
<p>3. NCl₃ 5 + 21 = 26</p> $: \ddot{\text{Cl}} - \ddot{\text{N}} - \ddot{\text{Cl}} :$ <p>Shape: trigonal pyramidal</p>	<p>9. ClF 7 + 7 = 14</p> $: \ddot{\text{Cl}} - \ddot{\text{F}} :$ <p>Shape: linear</p>
<p>4. NO₂⁻ 5 + 12 + 1 = 18</p> $[: \ddot{\text{O}} - \ddot{\text{N}} = \ddot{\text{O}} :]^-$ <p>Shape: bent</p>	<p>10. PO₄³⁻ 5 + 24 + 3 = 32</p> $[: \ddot{\text{O}} - \ddot{\text{P}} - \ddot{\text{O}} :]^{3-}$ <p>Shape: tetrahedral</p>
<p>5. CH₄ 4 + 1 × 21 = 26</p> $: \ddot{\text{H}} - \ddot{\text{C}} - \ddot{\text{H}} :$ <p>Shape: tetrahedral</p>	<p>11. SiCl₄ 4 + 28 = 32</p> $: \ddot{\text{Cl}} - \ddot{\text{Si}} - \ddot{\text{Cl}} :$ <p>Shape: tetrahedral</p>
<p>6. SO₃²⁻ 6 + 18 + 2 = 26</p> $[: \ddot{\text{O}} - \ddot{\text{S}} - \ddot{\text{O}} :]^{-2}$ <p>Shape: trigonal pyramidal</p>	<p>12. SiH₃Cl 4 + 3 + 7 = 14</p> $\text{H} - \ddot{\text{Si}} - \text{H}$ <p>Shape: tetrahedral</p>