

Name key Period All

Quiz 19 - Combination and Single Replacement Reaction Balancing 20 Points

Balance the following chemical reactions, showing balancing chart. No Work = No Credit!

Combination Reaction	Single Replacement Reaction
<p>2 each (6)</p> $\underline{3} \text{Li} + \underline{\quad} \text{P} \rightarrow \underline{\quad} \text{Li}_3\text{P}$	<p>2 each (8)</p> $\underline{3} \text{Mg} + \underline{2} \text{VN} \rightarrow \underline{2} \text{V} + \underline{\quad} \text{Mg}_3\text{N}_2$
<p>Balancing Chart</p> <p>Li - 3 Li - 3 P - 1 P - 1</p> <p><u>work 4</u></p>	<p>Balancing Chart</p> <p>Mg - 3 Mg - 3 V - 2 V - 2 N - 2 N - 2</p> <p><u>work 2</u></p>

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Balance the following chemical reactions, showing balancing chart. No Work = No Credit!

Combination Reaction	Single Replacement Reaction
<p>2 each (6)</p> $\underline{3} \text{Fe} + \underline{\quad} \text{N}_2 \rightarrow \underline{\quad} \text{Fe}_3\text{N}_2$	<p>2 each (8)</p> $\underline{6} \text{K} + \underline{\quad} \text{Cu}_2\text{O}_3 \rightarrow \underline{2} \text{Cu} + \underline{3} \text{K}_2\text{O}$
<p>Balancing Chart</p> <p>Fe - 3 Fe - 3 N - 2 N - 2</p> <p><u>work 4</u></p>	<p>Balancing Chart</p> <p>K - 6 K - 6 Cu - 2 Cu - 2 O - 3 O - 3</p> <p><u>work 2</u></p>

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<p style="text-align: center;"><i>2 each (6)</i></p> $\underline{2} \text{Al} + \underline{3} \text{S} \rightarrow \underline{\quad} \text{Al}_2\text{S}_3$	<p style="text-align: center;"><i>2 each (8)</i></p> $\underline{3} \text{Ca} + \underline{2} \text{Zn}_3\text{P} \rightarrow$ $\underline{6} \text{Zn} + \underline{\quad} \text{Ca}_3\text{P}_2$										
<p style="text-align: center;"><i>Balancing Chart</i></p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Al-2</td> <td style="text-align: center;">Al-2</td> </tr> <tr> <td style="text-align: center;">S-3</td> <td style="text-align: center;">S-3</td> </tr> </table> <p style="text-align: center; margin-top: 20px;"><u>work 4</u></p>	Al-2	Al-2	S-3	S-3	<p style="text-align: center;"><i>Balancing Chart</i></p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Ca-3</td> <td style="text-align: center;">Ca-3</td> </tr> <tr> <td style="text-align: center;">Zn-6</td> <td style="text-align: center;">Zn-6</td> </tr> <tr> <td style="text-align: center;">P-2</td> <td style="text-align: center;">P-2</td> </tr> </table> <p style="text-align: center; margin-top: 20px;"><u>work 2</u></p>	Ca-3	Ca-3	Zn-6	Zn-6	P-2	P-2
Al-2	Al-2										
S-3	S-3										
Ca-3	Ca-3										
Zn-6	Zn-6										
P-2	P-2										

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Combination Reaction	Single Replacement Reaction										
<p style="text-align: center;"><i>2 each (6)</i></p> $\underline{4} \text{V} + \underline{3} \text{O}_2 \rightarrow \underline{2} \text{V}_2\text{O}_3$	<p style="text-align: center;"><i>2 each (8)</i></p> $\underline{4} \text{Ag} + \underline{\quad} \text{PbS}_2 \rightarrow$ $\underline{\quad} \text{Pb} + \underline{2} \text{Ag}_2\text{S}$										
<p style="text-align: center;"><i>Balancing Chart</i></p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">V-4</td> <td style="text-align: center;">V-4</td> </tr> <tr> <td style="text-align: center;">O-6</td> <td style="text-align: center;">O-6</td> </tr> </table> <p style="text-align: center; margin-top: 20px;"><u>work 4</u></p>	V-4	V-4	O-6	O-6	<p style="text-align: center;"><i>Balancing Chart</i></p> <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Ag-4</td> <td style="text-align: center;">Ag-4</td> </tr> <tr> <td style="text-align: center;">Pb-1</td> <td style="text-align: center;">Pb-1</td> </tr> <tr> <td style="text-align: center;">S-2</td> <td style="text-align: center;">S-2</td> </tr> </table> <p style="text-align: center; margin-top: 20px;"><u>work 2</u></p>	Ag-4	Ag-4	Pb-1	Pb-1	S-2	S-2
V-4	V-4										
O-6	O-6										
Ag-4	Ag-4										
Pb-1	Pb-1										
S-2	S-2										