${ }^{\mathrm{Namox}} \underset{\text { Belancing Redox Equations }}{\text { Klas }}$

## Balancing Redox Equations



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$1 \mathrm{FeCCh}+3 \mathrm{NaOH} \rightarrow 1 \mathrm{FeOHH}_{3}+3 \mathrm{NaCl}$
$4 \mathrm{P}+5 \mathrm{O}_{2} \rightarrow 2 \mathrm{P}_{\mathrm{B}_{2}}$
12) $\underline{Z}_{\mathrm{Na}}+\underline{\mathrm{H}}_{\mathrm{HOO}} \rightarrow \underline{Z}_{\mathrm{NOOH}}+\underline{1 H O}$
(3) $2_{A_{B}, 0 \rightarrow 12} \operatorname{AO}_{\mathrm{Aq}}+1 \mathrm{O}_{2}$
14) $\frac{1}{6} \mathrm{~s}_{0}+12 \mathrm{o}_{2} \rightarrow 8$ sos
(15) $\frac{6}{Z_{\mathrm{K}}+1}+\frac{6}{} \mathrm{HOO}_{2} \rightarrow \frac{1}{2} \mathrm{CH}_{\mathrm{H}} \mathrm{OO}_{8}+6 \mathrm{O}_{2}$

18) $\frac{1}{2} \mathrm{HNO}_{2}+\frac{1}{2} \mathrm{NaHCO}_{3} \rightarrow 1 \mathrm{NaNO}_{3}+1 \mathrm{HOO}+1 \mathrm{CO}$
(19) $Z_{\mathrm{H}} \mathrm{HO}+1 \mathrm{I}_{2} \rightarrow \mathrm{Z}_{\mathrm{HO}_{2}}$
 RFMOX REAOTIONS




Name: $\qquad$ Balancing Chemical Equations

Balance the following chemical equations,

1. $2 \mathrm{Fe}+3 \mathrm{H}_{2} \mathrm{SO}_{4} \rightarrow 1+\mathrm{Fe}_{2}\left(\mathrm{SO}_{4}\right)_{3}+3 \mathrm{H}_{2}$
2. $1 \mathrm{CH}_{4}+2 \mathrm{O}_{2} \rightarrow 1+\mathrm{CO}_{2}+2 \mathrm{H}_{2} \mathrm{O}$
3. 1 SiCle (l) $+2+\mathrm{H}_{2} \mathrm{O}(l) \longrightarrow 1+\mathrm{SiO}_{2}(\mathrm{~s})+4.4 \mathrm{HCl}(\mathrm{aq})$
4. $2 \mathrm{AgI}+1 \quad \mathrm{Na}_{2} \mathrm{~S} \longrightarrow 1 \mathrm{Ag} 2 \mathrm{~S}^{2}+2$ NaI
5. $4 \mathrm{NH}_{3}+\underline{5} \mathrm{O}_{2} \longrightarrow 4 \mathrm{NO}_{4}+6 \mathrm{H}_{2} \mathrm{O}$
6. 1 FeO ( s$)+3 \mathrm{CO}(\mathrm{g}) \longrightarrow 1 \mathrm{Fe}(\mathrm{l})+3 \mathrm{CO}_{2}(\mathrm{~g})$
7. $1 \mathrm{SiO}_{2}+\underline{4} \mathrm{HF} \longrightarrow \underline{1} \mathrm{SiF}_{4}+2 \mathrm{H}_{2} \mathrm{O}$
8. $2 \mathrm{NaBr}+1 \mathrm{Cl}_{2} \longrightarrow 2 \mathrm{NaCl}+1 \mathrm{Br}_{2}$
9. $4\left(\mathrm{NH}_{4}\right)_{3} \mathrm{PO}_{4}+\underline{3} \mathrm{~Pb}\left(\mathrm{NO}_{3}\right)_{4} \longrightarrow 1 \mathrm{~Pb}_{3}\left(\mathrm{PO}_{4}\right)_{4}+\underline{12} \mathrm{NH}_{4} \mathrm{NO}_{3}$
10. $1 \mathrm{Mg}(\mathrm{OH})_{2}+2 \mathrm{HCl} \longrightarrow 1 \mathrm{MgCl}_{2}+2 \mathrm{H}_{2} \mathrm{O}$

## Balancing Chemieal Equations Workshee

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\(-\mathrm{H}_{2}+\ldots \mathrm{O}_{2} \rightarrow\) \(\mathrm{H}_{2}+\) -
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``` __ \(\mathrm{S}_{\mathrm{k}}+\) \(\mathrm{O}_{2} \rightarrow \quad \mathrm{SO}_{3}\)
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``` \(\mathrm{N}_{2}+\ldots \mathrm{O}_{2} \rightarrow\) N \(\mathrm{HgO} \rightarrow \quad \mathrm{Hg}+\ldots \mathrm{O}_{2}\)
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``` \(\_\quad \mathrm{Zn}+\ldots \mathrm{HCl} \rightarrow \quad \mathrm{ZnCl}_{2}+\quad \mathrm{H}_{2}\)
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``` \(\mathrm{SiCl}_{4}+\ldots \mathrm{H}_{2} \mathrm{O} \rightarrow \quad \mathrm{H}_{4} \mathrm{SiO}_{4}+\quad \mathrm{HCl}\) \(\mathrm{Na}_{+}\)
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\(\mathrm{H}_{3} \mathrm{PO}_{4} \rightarrow \quad \mathrm{H}_{4} \mathrm{P}_{2} \mathrm{O}_{7}+\mathrm{H}_{2} \mathrm{O}\)
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\(\left[\mathrm{CO}_{2}+\ldots \mathrm{NH}_{3} \rightarrow \quad \mathrm{OC}\left(\mathrm{NH}_{2}\right)_{2}+\ldots \mathrm{H}_{2} \mathrm{O}\right.\) \(\left[\mathrm{Si}_{2} \mathrm{H}_{3}+\ldots \mathrm{O}_{2} \rightarrow \mathrm{SiO}_{2}+\ldots \mathrm{H}_{2} \mathrm{O}_{3}\right.\)
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``` \(\ldots \quad \mathrm{Fe}+\ldots \mathrm{O}_{2} \rightarrow \ldots \mathrm{Fe}_{2} \mathrm{O}_{3}\)
\(\left[\mathrm{Fe}_{2}\left(\mathrm{SO}_{4}\right)_{3}+\ldots \mathrm{KOH} \rightarrow \quad \mathrm{K}_{2} \mathrm{SO}_{4}+\ldots \mathrm{Fe}(\mathrm{OH})_{3}\right.\)
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``` \(\mathrm{H}_{2} \mathrm{SO}_{4}+\ldots \quad \mathrm{HI} \rightarrow \mathrm{H}_{2} \mathrm{~S}+\ldots \mathrm{l}_{2}+\ldots \mathrm{H}_{2} \mathrm{O}\)
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__Al +___ FeO ->___ AllO}+___\textrm{Fe
\mp@subsup{\textrm{Fe}}{2}{2}+}+\mp@subsup{\textrm{H}}{2}{}->+\textrm{Fe}
__Na,CO}+\ldots\textrm{HCl}->\quad\textrm{NaCl}
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\(\mathrm{K}+\ldots \mathrm{Br}_{2} \rightarrow+\quad \mathrm{KBr}\) \(\mathrm{C}_{7} \mathrm{H}_{56}+\ldots \mathrm{O}_{2} \rightarrow \quad \mathrm{CO}_{2}\)
``` \(\qquad\)
``` \(\mathrm{P}_{4}+\ldots \mathrm{O}_{2} \rightarrow\) _ \(\mathrm{P}_{2} \mathrm{O}_{5}\)
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