

Name: _____

Balancing Chemical Equations



Directions: Balance each of the following chemical equations.

- 1) $\underline{\quad} \text{H}_3\text{PO}_4 + \underline{\quad} \text{KOH} \rightarrow \underline{\quad} \text{K}_3\text{PO}_4 + \underline{\quad} \text{H}_2\text{O}$
- 2) $\underline{\quad} \text{K} + \underline{\quad} \text{B}_2\text{O}_3 \rightarrow \underline{\quad} \text{K}_2\text{O} + \underline{\quad} \text{B}$
- 3) $\underline{\quad} \text{HCl} + \underline{\quad} \text{NaOH} \rightarrow \underline{\quad} \text{NaCl} + \underline{\quad} \text{H}_2\text{O}$
- 4) $\underline{\quad} \text{Na} + \underline{\quad} \text{NaNO}_3 \rightarrow \underline{\quad} \text{Na}_2\text{O} + \underline{\quad} \text{N}_2$
- 5) $\underline{\quad} \text{C} + \underline{\quad} \text{S}_8 \rightarrow \underline{\quad} \text{CS}_2$
- 6) $\underline{\quad} \text{Na} + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{Na}_2\text{O}$
- 7) $\underline{\quad} \text{N}_2 + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{N}_2\text{O}_5$
- 8) $\underline{\quad} \text{H}_3\text{PO}_4 + \underline{\quad} \text{Mg}(\text{OH})_2 \rightarrow \underline{\quad} \text{Mg}_3(\text{PO}_4)_2 + \underline{\quad} \text{H}_2\text{O}$
- 9) $\underline{\quad} \text{NaOH} + \underline{\quad} \text{H}_2\text{CO}_3 \rightarrow \underline{\quad} \text{Na}_2\text{CO}_3 + \underline{\quad} \text{H}_2\text{O}$
- 10) $\underline{\quad} \text{KOH} + \underline{\quad} \text{HBr} \rightarrow \underline{\quad} \text{KBr} + \underline{\quad} \text{H}_2\text{O}$
- 11) $\underline{\quad} \text{Na} + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{Na}_2\text{O}$
- 12) $\underline{\quad} \text{Al}(\text{OH})_3 + \underline{\quad} \text{H}_2\text{CO}_3 \rightarrow \underline{\quad} \text{Al}_2(\text{CO}_3)_3 + \underline{\quad} \text{H}_2\text{O}$
- 13) $\underline{\quad} \text{Al} + \underline{\quad} \text{S}_8 \rightarrow \underline{\quad} \text{Al}_2\text{S}_3$
- 14) $\underline{\quad} \text{Cs} + \underline{\quad} \text{N}_2 \rightarrow \underline{\quad} \text{Cs}_3\text{N}$
- 15) $\underline{\quad} \text{Mg} + \underline{\quad} \text{Cl}_2 \rightarrow \underline{\quad} \text{MgCl}_2$
- 16) $\underline{\quad} \text{Rb} + \underline{\quad} \text{RbNO}_3 \rightarrow \underline{\quad} \text{Rb}_2\text{O} + \underline{\quad} \text{N}_2$
- 17) $\underline{\quad} \text{C}_6\text{H}_6 + \underline{\quad} \text{O}_2 \rightarrow \underline{\quad} \text{CO}_2 + \underline{\quad} \text{H}_2\text{O}$
- 18) $\underline{\quad} \text{N}_2 + \underline{\quad} \text{H}_2 \rightarrow \underline{\quad} \text{NH}_3$

Grade 9 Natural Science How To Balance Equations

Jianjun Gao



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Blue Book of Audio-visual Materials ,1964 **Design for Learning** Joint Committee of the Toronto Board of Education and the University of Toronto,1962 Rolling the Elephant Over Pamela Brown Clarridge, Elizabeth M. Whitaker,1997 Clarridge and Whitaker s challenge was to coordinate the design and implementation of a new elementary progress report that would provide not only a more consistent and equitable measure of student progress across an extremely diverse district but also promote better communication among parents students and teachers

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