

# WORKSHEET: BALANCING EQUATIONS

Balance the following equations by placing small whole-number coefficients in the appropriate places.

## Synthesis

1.  $\underline{\quad}$  Ba +  $\underline{\quad}$  O<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  BaO
2.  $\underline{\quad}$  C +  $\underline{\quad}$  S  $\rightarrow$   $\underline{\quad}$  CS<sub>2</sub>
3.  $\underline{\quad}$  Li +  $\underline{\quad}$  O<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  Li<sub>2</sub>O
4.  $\underline{\quad}$  Mg +  $\underline{\quad}$  N<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  Mg<sub>3</sub>N<sub>2</sub>
5.  $\underline{\quad}$  FeCl<sub>2</sub> +  $\underline{\quad}$  Cl<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  FeCl<sub>3</sub>

## Decomposition or Analysis

6.  $\underline{\quad}$  KClO<sub>3</sub>  $\rightarrow$   $\underline{\quad}$  KCl +  $\underline{\quad}$  O<sub>2</sub>
7.  $\underline{\quad}$  Ag<sub>2</sub>O  $\rightarrow$   $\underline{\quad}$  Ag +  $\underline{\quad}$  O<sub>2</sub>
8.  $\underline{\quad}$  CuCO<sub>3</sub>  $\rightarrow$   $\underline{\quad}$  CuO +  $\underline{\quad}$  CO<sub>2</sub>
9.  $\underline{\quad}$  AuBr<sub>3</sub>  $\rightarrow$   $\underline{\quad}$  Au +  $\underline{\quad}$  Br<sub>2</sub>
10.  $\underline{\quad}$  UF<sub>6</sub>  $\rightarrow$   $\underline{\quad}$  U +  $\underline{\quad}$  F<sub>2</sub>

## Single Replacement

11.  $\underline{\quad}$  Zn +  $\underline{\quad}$  HCl  $\rightarrow$   $\underline{\quad}$  ZnCl<sub>2</sub> +  $\underline{\quad}$  H<sub>2</sub>
12.  $\underline{\quad}$  Zn +  $\underline{\quad}$  CuSO<sub>4</sub>  $\rightarrow$   $\underline{\quad}$  ZnSO<sub>4</sub> +  $\underline{\quad}$  Cu
13.  $\underline{\quad}$  Cu +  $\underline{\quad}$  AgNO<sub>3</sub>  $\rightarrow$   $\underline{\quad}$  Cu(NO<sub>3</sub>)<sub>2</sub> +  $\underline{\quad}$  Ag
14.  $\underline{\quad}$  K +  $\underline{\quad}$  H<sub>2</sub>O  $\rightarrow$   $\underline{\quad}$  KOH +  $\underline{\quad}$  H<sub>2</sub>
15.  $\underline{\quad}$  Al +  $\underline{\quad}$  CuCl<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  AlCl<sub>3</sub> +  $\underline{\quad}$  Cu

## Double Replacement

16.  $\underline{\quad}$  BaCl<sub>2</sub> +  $\underline{\quad}$  Na<sub>2</sub>SO<sub>4</sub>  $\rightarrow$   $\underline{\quad}$  NaCl +  $\underline{\quad}$  BaSO<sub>4</sub>
17.  $\underline{\quad}$  ZnCl<sub>2</sub> +  $\underline{\quad}$  (NH<sub>4</sub>)<sub>2</sub>S  $\rightarrow$   $\underline{\quad}$  NH<sub>4</sub>Cl +  $\underline{\quad}$  ZnS
18.  $\underline{\quad}$  NaOH +  $\underline{\quad}$  HCl  $\rightarrow$   $\underline{\quad}$  NaCl +  $\underline{\quad}$  H<sub>2</sub>O
19.  $\underline{\quad}$  FeS +  $\underline{\quad}$  HCl  $\rightarrow$   $\underline{\quad}$  FeCl<sub>2</sub> +  $\underline{\quad}$  H<sub>2</sub>S
20.  $\underline{\quad}$  AlCl<sub>3</sub> +  $\underline{\quad}$  NaOH  $\rightarrow$   $\underline{\quad}$  Al(OH)<sub>3</sub> +  $\underline{\quad}$  NaCl

## Combustion

21.  $\underline{\quad}$  CH<sub>4</sub> +  $\underline{\quad}$  O<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  CO<sub>2</sub> +  $\underline{\quad}$  H<sub>2</sub>O
22.  $\underline{\quad}$  C<sub>2</sub>H<sub>6</sub> +  $\underline{\quad}$  O<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  CO<sub>2</sub> +  $\underline{\quad}$  H<sub>2</sub>O
23.  $\underline{\quad}$  C<sub>3</sub>H<sub>8</sub> +  $\underline{\quad}$  O<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  CO<sub>2</sub> +  $\underline{\quad}$  H<sub>2</sub>O
24.  $\underline{\quad}$  C<sub>4</sub>H<sub>10</sub> +  $\underline{\quad}$  O<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  CO<sub>2</sub> +  $\underline{\quad}$  H<sub>2</sub>O
25.  $\underline{\quad}$  C<sub>5</sub>H<sub>12</sub> +  $\underline{\quad}$  O<sub>2</sub>  $\rightarrow$   $\underline{\quad}$  CO<sub>2</sub> +  $\underline{\quad}$  H<sub>2</sub>O

# 233 Physical Science And Formulas Worksheet Answerkey

**JR Anderson**

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**Modern Science and the Book of Genesis** James William Skehan,National Science Teachers Association,1986 Based on the premise that knowledge of evolutionary theory is essential for understanding the natural world this document was designed to assist science teachers and others as they consider the issues that influence the teaching of evolution The position is taken that there is no conflict between data and sound theories based on science and religious beliefs based on the Bible Information and perspectives are presented under the topic headings of 1 The Genesis of Genesis 2 Early Science Interprets Genesis 3 New Data 4 Creationism versus Science and 5 Two Kinds of Knowledge References are listed and the National Science Teacher Association s position statement on the Inclusion of Nonsense Tenets in Science Instruction is included ML

**American Journal of Physics** ,1993

**Nature** Sir Norman Lockyer,1871

*Explanatory Models, Unit Standards, and*

*Personalized Learning in Educational Measurement* William P. Fisher Jr.,Paula J. Massengill,2022-10-15 The papers by Jack Stenner included in this book document the technical details of an art and science of measurement that creates new entrepreneurial business opportunities Jack brought theory instruments and data together in ways that are applicable not only in the context of a given test of reading or mathematics ability but which more importantly catalyzed literacy and numeracy capital in new fungible expressions Though Jack did not reflect in writing on the inferential constructive processes in which he engaged much can be learned by reviewing his work with his accomplishments in mind A Foreword by Stenner s colleague and co author on multiple works William P Fisher Jr provides key clues concerning a how Jack s understanding of measurement and its values aligns with social and historical studies of science and technology and b how recent developments in collaborations of psychometricians and metrologists are building on and expanding Jack s accomplishments

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