

**Chemistry: Balancing Chemical Equations**

Directions: First, balance each of the chemical equations below. Then, classify each reaction as **synthesis**, **decomposition**, **single-replacement**, or **double-replacement**. To earn full credit, write the words out when classifying.

Balance the equation...

...and classify it.

1.	$\underline{2}\text{Sb} + \underline{3}\text{Cl}_2 \rightarrow \underline{2}\text{SbCl}_3$	synthesis
2.	$\underline{2}\text{Mg} + \underline{O}_2 \rightarrow \underline{2}\text{MgO}$	synthesis
3.	$\underline{\quad}\text{CaCl}_2 \rightarrow \underline{\quad}\text{Ca} + \underline{\quad}\text{Cl}_2$	decomposition
4.	$\underline{2}\text{NaClO}_3 \rightarrow \underline{2}\text{NaCl} + \underline{3}\text{O}_2$	decomposition
5.	$\underline{\quad}\text{Fe} + \underline{2}\text{HCl} \rightarrow \underline{\quad}\text{FeCl}_2 + \underline{\quad}\text{H}_2$	single replacement
6.	$\underline{\quad}\text{CuO} + \underline{\quad}\text{H}_2 \rightarrow \underline{\quad}\text{Cu} + \underline{\quad}\text{H}_2\text{O}$	single replacement
7.	$\underline{2}\text{Al} + \underline{3}\text{H}_2\text{SO}_4 \rightarrow \underline{\quad}\text{Al}_2(\text{SO}_4)_3 + \underline{3}\text{H}_2$	single replacement
8.	$\underline{\quad}\text{MgBr}_2 + \underline{\quad}\text{Cl}_2 \rightarrow \underline{\quad}\text{MgCl}_2 + \underline{\quad}\text{Br}_2$	single replacement
9.	$\underline{\quad}\text{SnO}_2 + \underline{2}\text{C} \rightarrow \underline{\quad}\text{Sn} + \underline{2}\text{CO}$	single replacement
10.	$\underline{\quad}\text{Pb}(\text{NO}_3)_2 + \underline{\quad}\text{H}_2\text{S} \rightarrow \underline{\quad}\text{PbS} + \underline{2}\text{HNO}_3$	double replacement
11.	$\underline{2}\text{HgO} \rightarrow \underline{2}\text{Hg} + \underline{\quad}\text{O}_2$	decomposition
12.	$\underline{2}\text{KClO}_3 \rightarrow \underline{2}\text{KCl} + \underline{3}\text{O}_2$	decomposition
13.	$\underline{\quad}\text{N}_2 + \underline{3}\text{H}_2 \rightarrow \underline{2}\text{NH}_3$	synthesis
14.	$\underline{2}\text{NaBr} + \underline{\quad}\text{Cl}_2 \rightarrow \underline{2}\text{NaCl} + \underline{\quad}\text{Br}_2$	single replacement
15.	$\underline{\quad}\text{Zn} + \underline{2}\text{AgNO}_3 \rightarrow \underline{\quad}\text{Zn}(\text{NO}_3)_2 + \underline{2}\text{Ag}$	single replacement
16.	$\underline{\quad}\text{Sn} + \underline{2}\text{Cl}_2 \rightarrow \underline{\quad}\text{SnCl}_4$	synthesis
17.	$\underline{\quad}\text{Ba}(\text{OH})_2 \rightarrow \underline{\quad}\text{BaO} + \underline{\quad}\text{H}_2\text{O}$	decomposition

# Mastering Chemistry Exercise Answers

**DEAN STRATTON**

## Mastering Chemistry Exercise Answers:

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inside information to help make chemistry less stressful even enjoyable Includes exercises and sections for self assessment

**Chemistry: The Central Science** Theodore L. Brown,H. Eugene LeMay Jr.,Bruce E. Bursten,Catherine Murphy,Patrick Woodward,Steven Langford,Darius Sagatys,Adrian George,2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation

**Mastering Written English** Mary Epes,Carolyn

Kirkpatrick,Michael G. Southwell,1990 Introduction to Organic and Biological Chemistry Michael S. Matta,Anthony C.

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General Chemistry Study Guide Sixth Edition Darrell D. Ebbing,1999

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put the loaf tray on the middle shelf and bake for 25 minutes then lower the oven to 200 c 392 f gas mark 6 and bake for 10 15 minutes more until the crust has a good colour hold the loaf in a tea towel and tap the bottom if it sounds hollow it's

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meanwhile heat the oven to 230 c 210 c fan 450 f gas 8 and put a roasting tray in the bottom of the oven to heat up step 9 remove the risen loaf from the bag and dust with flour fill the roasting tray with cold water to create steam and put the bread in the oven bake for 15 minutes then lower the oven to 190 c 170 c fan 375 f gas 5

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