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In the SEARCH bar type: stoichiometry ... select the 1<sup>st</sup> gizmo titled STOICHIOMETRY that appears.The first Gizmo shows this equation:  $\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$ 

There is a Question to solve under the equation.

Here are the features that will help you solve each problem:

- You have a set of 16 tiles containing various conversion factors. Any of these tiles can be dragged down and placed on the green bar to solve the problem. The starting tile is already in place. It cannot be moved.
- When you place a tile correctly, you will see a red line that cancels units for you.
- The tiles can be flipped if the units do not cancel properly. Click the box, "Flip Tile" after you have dragged a tile down if you want to flip it.
- You can always check how the units are going. Click the box, "Show Units".
- When you have the right tiles in place, a box appears – "Show Numerical Result". Click the box after you have calculated the answer to see if you are correct.
- The "Reset" button moves all tiles away if you want to start over again. The "New Problem" button gives you a different problem with the same equation. "New Equation" button changes the balanced equation.

Explore these features for several minutes until you understand how to control them. Then do a minimum of 10 problems. (Each reaction has 4 or 5 problems, and there are at least 7 different equations.) Space to record your work is attached.

Grading rubric:	10 problems done =	20 points
	9 problems done =	18 points
	8 problems done =	16 points
	6-7 problems done =	14 points
	5 or fewer =	no credit until at least 6 are done

The last 5 problems are worth 1 point each to total 25 points for this assignment

Here is what to do:

Copy the Balanced Equation you are using:  $\text{Fe}_2\text{O}_3 + 3\text{CO} \rightarrow 2\text{Fe} + 3\text{CO}_2$ What information is Given? (This information is on the first tile.) 1.75 moles  $\text{Fe}_2\text{O}_3$ What information is Wanted? (What unit & name are you looking for?) moles  $\text{CO}_2$ 

Copy the complete set of tiles that you used to solve this problem. Use a calculator to solve the problem, and check it in the Gizmo.

I have done a problem from the first reaction for you



Do 10 problems on your own, or in a small group. You may access the Gizmo from home by using the URL and logon information provided. Keep practicing – each Gizmo problem will let you know when you have the correct set of factors.

# Chapter 12 Stoichiometry Study Guide Answer Key

**SJ Ball**



## **Chapter 12 Stoichiometry Study Guide Answer Key:**

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web prophase prometaphase the cell prepares for mitosis at this stage the chromosomes are not clearly visible the chromosomes pairs of sister chromatids condense and become visible meanwhile the nucleolus and nuclear envelope disappear the centrioles begin moving to opposite ends of the cell and start forming the mitotic spindle metaphase

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