

## Student Exploration: Chemical Equations

**Vocabulary:** Avogadro's number, chemical equation, chemical formula, chemical reaction, coefficient, combination, combustion, conservation of matter, decomposition, double replacement, molar mass, mole, molecular mass, molecule, product, reactant, single replacement, subscript

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

1. A candle is placed on one pan of a balance, and an equal weight is placed on the other pan.

What would happen if you lit up the candle and waited for a while? **The pan with the candle on it will be lifted.**

2. Suppose the candle was placed in a large, sealed jar that allowed it to burn for several minutes before running out of oxygen. The candle and jar are balanced by an equal weight.

In this situation, what would happen if you lit up the candle and waited? **The side with the lit candle would rise because the energy from the burning flame would be concealed in the top of the jar making it lighter.**

### Gizmo Warm-up

Burning is an example of a **chemical reaction**. The law of **conservation of matter** states that no atoms are created or destroyed in a chemical reaction. Therefore, a balanced **chemical equation** will show the same number of each type of atom on each side of the equation.

To set up an equation in the *Chemical Equations* Gizmo, type the **chemical formulas** into the text boxes of the Gizmo. First, type in "H<sub>2</sub>+O<sub>2</sub>" in the **Reactants** box and "H<sub>2</sub>O" in the **Products** box. This represents the reaction of hydrogen and oxygen gas to form water.



1. Check that the **Visual** display is chosen on each side of the Gizmo, and count the atoms.

A. How many hydrogen atoms are on the **Reactants** side? **2** **Products** side? **2**

B. How many oxygen atoms are on the **Reactants** side? **2** **Products** side? **1**

2. Based on what you see, is this equation currently balanced?  
**No.**

# Solar System Exploration Guide Answer Key

**United States. Congress. Senate.  
Committee on Appropriations.  
Subcommittee on HUD-Independent  
Agencies**

## **Solar System Exploration Guide Answer Key:**

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science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in Resources for Teaching Elementary School Science A completely revised edition of the best selling resource guide Science for Children Resources for Teachers this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education Resources for Teaching Elementary School Science also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents

**NASA Authorization: NASA authorizations for fiscal year 1989** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1988 *NASA EP.* United States. National Aeronautics and Space Administration,1961

**Department of Housing and Urban Development, and Certain Independent Agencies Appropriations for Fiscal Year 1986: Nondepartmental witnesses** United States. Congress. Senate. Committee on Appropriations. Subcommittee on HUD-Independent Agencies,1985 **Department of Housing and Urban Development, and Certain Independent**

**Agencies Appropriations for Fiscal Year 1986** United States. Congress. Senate. Committee on Appropriations. Subcommittee on HUD-Independent Agencies,1985 Fiscal Year 1997 NASA Budget United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1996

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