



Science Curriculum

Chemical Changes

Read the passage and answer the following questions.



1. What is the chemical formula for hydrogen peroxide?

Hydrogen peroxide is the chemical formula for the breaking of molecules. In this chemical reaction, the reactants are hydrogen peroxide (H_2O_2) and the products are water (H_2O) and oxygen (O_2). The reaction is exothermic, meaning it releases heat and energy.

2. What is the chemical formula for water? Is it a liquid, solid, or gas? Is it a reactant or a product? Is it a catalyst or an inhibitor?

3. What is the chemical formula for oxygen? Is it a liquid, solid, or gas? Is it a reactant or a product?

Hydrogen peroxide is a colorless liquid with a strong, sharp odor. It is a powerful oxidizing agent and is used in many industrial and household applications. It is also used in medicine as a disinfectant and in dentistry as a bleaching agent. The reaction of hydrogen peroxide to form water and oxygen is a common example of a chemical change.

4. According to the law of conservation of mass, if the total mass of the reactants is 100 grams, what is the total mass of the products?

100 grams



5. What is the chemical formula for water? Is it a liquid, solid, or gas?

6. What is the chemical formula for oxygen? Is it a liquid, solid, or gas?

7. What is the chemical formula for hydrogen peroxide? Is it a liquid, solid, or gas?

Hydrogen peroxide is a colorless liquid with a strong, sharp odor. It is a powerful oxidizing agent and is used in many industrial and household applications. It is also used in medicine as a disinfectant and in dentistry as a bleaching agent.

8. What is the chemical formula for water? Is it a liquid, solid, or gas?

9. What is the chemical formula for oxygen? Is it a liquid, solid, or gas?

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10. According to the law of conservation of mass, if the total mass of the reactants is 100 grams, what is the total mass of the products?

Chemical Changes Section 1 Reinforcement

RJ Shavelson



Chemical Changes Section 1 Reinforcement:

Glencoe Science McGraw-Hill Staff,2001-06 Physical Science: Chemical Changes Globe Fearon,Seymour Rosen,1999 *Matter, Building Block of the Universe* ,1993 **Resources in Education** ,1986 Guide to Diagnosis and Appraisal of AAR Damage to Concrete in Structures Bruno Godart,Mario de Rooij,Jonathan G.M. Wood,2013-04-08 This book describes procedures and methodologies used predominantly to obtain a diagnosis of damaged concrete possibly caused by Alkali Aggregate Reaction AAR It has two primary objectives namely firstly to identify the presence of AAR reaction and whether or not the reaction is the primary or contributory cause of damage in the concrete and secondly to establish its intensity severity in various members of a structure It includes aspects such as field inspection of the structure sampling petrographic examination of core samples and supplementary tests and analyses on cores such as mechanical tests and chemical analysis Evaluation of test data for prognosis consequences and appraisal will be more fully set out in AAR 6 2

Book of A.S.T.M. Tentative Standards American Society for Testing Materials,1938 Science Workshop Series: Chemical changes Seymour Rosen,2000 This program presents science concepts in areas of biology earth science chemistry and physical science in a logical easy to follow design that challenges without overwhelming This flexible program consists of 12 student texts that can easily supplement an existing science curriculum or be used as a stand alone course Reading Level 4 5 Interest Level 6 12 *Science in Your World: Teacher edition* Jay K. Hackett,1991 Addison-Wesley Introduction to Physical Science Michael B. Leyden,1988 Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and

incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind *Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Materials Alan Everett,C. M. H Barritt,2014-05-12 A well known and respected standard reference this fifth edition provides a thorough treatment of the properties of building materials and their manufacture both on site and in the factory **The Encyclopedia Britannica** James Louis Garvin, Franklin Henry Hooper, Warren E. Cox,1929 **Concrete** Harvey Whipple,1925 **Scientific American** ,1916 Concrete-cement Age ,1914 Traffic Bulletin ,1929 Concrete Engineers' Handbook George A. Hool,Nathan C. Johnson,1918 **The City Record** New York (N.Y.),1915 Fireproof Magazine ,1904 *Building Research Technical Paper* ,1926

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