

Order of the Universe

Universe, Galaxy, Solar System, Stars, Planet

- Universe - **13.7** billion years-old - began with Big Bang
- Galaxy - a collection of billions of **stars**. ours is called the **Milky Way**. We are on the outside arm of this spiral galaxy.
- Solar System - a star that has planets and moons **orbiting** around it.
- Star - outer object in space that makes their own light. They do this through **nuclear fusion**.
- Planets - round objects that **orbit** around other.



Explain the following hierarchy from the smallest to the largest:

Saturn, our solar system, universe, Milky Way Galaxy, Saturn, our solar system, Milky Way Galaxy, universe, Milky Way Galaxy, our solar system, universe, Saturn, Saturn, Milky Way Galaxy, universe, our solar system.

Inexpended about 13.7 billion years ago.

Created the Universe

Big Bang Theory

Universe is still expanding and cooling from this explosion.

The universe began with an extremely dense concentration of matter from a single atom that exploded.

Redshift - when we look at distant galaxies we see that their spectrum is shifting to the longer wave end (red). This means they are moving away from us.

Evidence

Galaxy Recession Evidence The light travel from the Big Bang that happened to be stretched out from expansion that they are enormous.**Distance Effect** - waves that are moving away from us are longer because they are being stretched. When waves are moving towards us, they are shorter because they are being compressed.

Blue shift - moving towards us

Stars Study Guide Answers Earth Science

John Gerard

Stars Study Guide Answers Earth Science:

Prentice Hall Exploring Earth Science ,1997 **Earth Science** ,2002-01-02 **In Quest of the Universe** Karl F. Kuhn,Theo Koupelis,2004 **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,1998-04-30 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 **Resources in Education** ,2000 *Laboratory Manual for Earth Science* C. Daniel Dillman,Robert R. Polk,1965 **Study Guide** Stanley Chernicoff,2001-08 From Edward E Chatelain Valdosta State University Georgia this study guide helps students review and master the key ideas from every chapter through labeling exercises Chapter Reviews with matching statements plus Practice Tests and Challenge Tests that consist of multiple choice true false matching and

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 English Mechanic and Mirror of Science ,1912 **El-Hi Textbooks & Serials in Print** Bowker Editorial Staff,2004-02

The Planetary Report ,1991 **Instructor** ,1964 **Directory of Distance Learning Opportunities** Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation **Learning Directory** ,1970

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