

Earth, Moon, & Sun

Study Guide & Review Worksheets

Earth, Moon, & Sun

Terms to Know

- Rotation:** An object's spinning motion on its own axis.
- Revolution:** An object's orbital motion around another object.

Facts to Know

Earth	Moon	Sun
<ul style="list-style-type: none"> Earth's surface is constantly changing. A hot magma core is present at the center of the planet. The heat from this core is responsible for Earth's magnetic field and the movement of tectonic plates. 	<ul style="list-style-type: none"> The moon's surface is mostly empty. A hot magma core is present at the center of the moon. The moon's temperature is extremely hot during the day and extremely cold at night. 	<ul style="list-style-type: none"> The sun is an average-sized star. It is a ball of super-hot gas. The sun's heat is what keeps Earth warm. The sun's light is what allows plants to grow.

Phases of the Moon

The phases of the moon are caused by the moon's orbit around the Earth and the reflection of sunlight off the moon's surface.



Full Moon



First Quarter



New Moon



Last Quarter

Tides

The phases of the moon cause the tides to change.

Highest Tidal Ranges

- Full and New Moons
- Earth, moon, and sun are aligned



Lowest Tidal Ranges

- First and Last Quarter
- Earth, moon, and sun are at right angles



Eclipses

An eclipse occurs when a moon or planet moves into the shadow of another moon or planet.

A solar eclipse happens when the moon moves between the Sun and the Earth.



Image of a solar eclipse that occurred in 2024

Seasons

Earth's axis. The part of Earth that is tilted resulting in higher temperatures and more daylight. As the Earth revolves around the sun, the sun changes throughout the year.



Name: _____

Earth, Moon, & Sun

- Why does the Earth have different temperatures?
- Azura is planning a beach vacation in Florida. During which moon phase would the tides be the highest? During which moon phase would the tides be the lowest?
- A group of astronauts are going on a mission to Mars. How would the conditions on Mars be different from Earth's?
- Deshaun says the Earth is tilted because it is tilted towards the sun. Explain your reasoning.
- Order the Earth, moon, and sun from smallest to largest.

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Sun Earth Moon System Study Guide Answers

Rebecca M. Berg



Sun Earth Moon System Study Guide Answers:

A Study Guide to Accompany the Dynamic Universe C. D. Garmany, Stephen J. Shawl, 1983 *Michigan Test for Teacher Certification Study Guide*, 2001 *In Quest of the Solar System* Theo Koupelis, 2010-01-26 *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 *In Quest of the Universe* Theo Koupelis, 2010-02-02 ***In Quest of the Stars and Galaxies*** Theo Koupelis, 2010-02-04 Available with WebAssign Author Theo Koupelis has set the mark for a student friendly accessible introductory astronomy text with *In Quest of the Universe* He has now developed a new text to accommodate those course that focus mainly on stars and galaxies Ideal

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