

Moon Note-Taking Guide



Why do we see the same face of the moon?

Because the moon rotates around its axis at the same rate that it orbits Earth, we always see the same side of the moon. This is called synchronous rotation. The moon's rotation period is the same as its orbital period around Earth, which is approximately 27.3 days. This is why we always see the same side of the moon from Earth.

How does the moon's distance from Earth affect its apparent size?

The moon's distance from Earth varies because its orbit is elliptical. When the moon is closer to Earth (perigee), it appears larger in the sky. When it is farther away (apogee), it appears smaller. The difference in apparent size is about 14%.

What causes the tides on Earth?

The primary cause of tides is the gravitational pull of the moon. The moon's gravity pulls more strongly on the side of Earth closest to it, creating a bulge. On the opposite side, another bulge forms due to the centrifugal force of Earth's rotation. The sun also contributes to the tides, but its effect is smaller than the moon's.

The Moon

The moon is the only natural satellite of Earth. It is a rocky body with a heavily cratered surface. The moon's composition is very similar to Earth's, suggesting that it formed from the same material. The moon's surface is covered in a layer of dust and small rocks called regolith. The moon's atmosphere is extremely thin, and it has no magnetic field.

The moon's phases are caused by the changing angles of the sun, Earth, and moon. As the moon orbits Earth, the portion of the moon that is illuminated by the sun and visible from Earth changes. This creates the different phases we see in the sky. The phases are: New Moon, Waxing Crescent, First Quarter, Waxing Gibbous, Full Moon, Waning Gibbous, Last Quarter, and Waning Crescent.

The moon's distance from Earth affects its apparent size and the strength of its gravitational pull. When the moon is closer to Earth, it appears larger and its gravitational pull is stronger. This is why the moon's gravitational pull is the primary cause of the tides on Earth. The moon's distance also affects the length of its orbital period and the time it takes to rotate on its axis.

The moon's surface is covered in a layer of dust and small rocks called regolith. This layer is the result of billions of years of meteorite impacts. The regolith is very fine and powdery. The moon's surface is also covered in craters of various sizes. The largest craters are found on the far side of the moon, which is not visible from Earth. The moon's surface temperature ranges from about -173°C to 127°C.

The moon's composition is very similar to Earth's, suggesting that it formed from the same material. This is known as the giant impact hypothesis. According to this theory, a large object collided with the early Earth, and the debris from the collision formed the moon. The moon's composition is similar to Earth's because it is made of the same material.

Science
between
the pages



Physical Science Notetaking Guide Answers

S Ben Porath



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Focus on Physical Science California Edition Michael J. Padilla, 2007 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 **The Frogs, with intr. and notes by W.W. Merry** Aristophanes, 1887 **X-kit Exam 2004 Physical Science** , 2005 *Notes on books* Longmans, Green and co, 1860 **Resources in Education** , 1993-07 **Scientific Information Notes** , 1961 *Notes on Books* , 1860 **Uncovering Student Ideas in Physical Science, Volume 1** Page D. Keeley, Rand Harrington, 2010-05-15 This is a must have book if you re going to tackle the challenging concepts of force and motion in your

classroom *New Horizons in Mathematics and Science Education* ,2001 *Essays, English and American, with Introductions, Notes and Illustrations* ,1910 Chemical News and Journal of Physical Science William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1888 Chemical News and Journal of Physical Science ,1888 **Notes and Queries** ,1893 **The Chemical News and Journal of Physical Science** ,1888 **In Quest of the Universe** Theo Koupelis,2010-02-02 Available with WebAssign Designed for the nonscience major In Quest of the Universe Sixth Edition is a comprehensive student friendly introduction to astronomy This accessible text guides readers through the development of historical and current astronomical theories to provide a clear account of how science works Koupelis distinct explanations acquaint students with their own solar system before moving on to the stars and distant galaxies With numerous interactive learning tools the Starry Night planetary software package and stunning visuals and up to date content In Quest of the Universe Sixth Edition is an exciting overview of this ever changing discipline **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 for the one term course In Quest of the Stars and Galaxies opens with material essential to the introductory course gravity light telescopes the sun and then moves on to focus on key material related to stars and galaxies Incorporating the rich pedagogy and vibrant art program that have made his earlier books a success Koupelis In Quest of the Stars and Galaxies is the clear choice for students first exploration of the cosmos The First (-second) Book of Milton's Paradise Lost. With Notes on the Analysis and Parsing, Rules for Analysis, with Examples of Their Application, and a Life of Milton. By C. P. Mason John Milton,1861 *Research in Education* ,1973 **Choice Notes from "Notes and Queries"** P.P. - London. - Notes and Queries,1858

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