

Chapter 29 Our Solar System Study Guide Answers

There are many methods of detecting exoplanets... 225a916b7a The role of non-renewable energy sources in sustainable energy is controversial. Nuclear power does not produce carbon pollution or air pollution, but has drawbacks that include radioactive waste, the risk of nuclear proliferation, and the risk of accidents. Switching from coal... 225a916b7a

Asteroid Asteroids are rocky, metallic, or icy bodies with no atmosphere, and are broadly classified into C-type (carbonaceous), M-type (metallic), or S-type (silicaceous). A body is classified as a comet, not an asteroid, if it shows a coma (tail) when warmed by solar radiation, although recent observations suggest a continuum between these types of bodies. The size and shape of asteroids vary significantly, ranging from small rubble piles under a kilometer across to Ceres, a dwarf planet almost 1000 km in diameter. neither a planet nor an identified comet—that orbits within the inner Solar System or is co-orbital with Jupiter (Trojan asteroids). Asteroids are rocky An asteroid is a minor planet—an object larger than a meteoroid that is neither a planet nor an identified comet—that orbits within the inner Solar System or is co-orbital with Jupiter (Trojan asteroids) 225a916b7a

In history, archaeology and physical anthropology, the three-age system is a methodological concept adopted during the 19th century according to which artefacts and events of late prehistory and early history could be broadly ordered into a recognizable chronology. C. J. Thomsen initially developed this categorization in the period... 225a916b7a The most massive objects that orbit the Sun are the eight planets. Closest to the Sun in order of increasing distance are the four terrestrial planets – Mercury, Venus, Earth and Mars. Only the Earth and Mars orbit within the Sun's habitable... 225a916b7a

Futures studies Part of the discipline thus seeks a systematic and pattern-based understanding of past and present,. Predictive techniques, such as forecasting, can be applied, but contemporary futures studies scholars emphasize the importance of systematically exploring alternatives. In general, it can be considered as a branch of

the social sciences and an extension to the field of history. Futures studies, futures research or futurology is the systematic, interdisciplinary and holistic study of social and technological advancement, and other Futures studies, futures research or futurology is the systematic, interdisciplinary and holistic study of social and technological advancement, and other environmental trends, often for the purpose of exploring how people will live and work in the future. Futures studies (colloquially called "futures" by many of the field's practitioners) seeks to understand what is likely to continue and what could plausibly change 225a916b7a

Jupiter 5 Gm), with an orbital period of 11. It is the third-brightest natural object in the Earth's night sky, after the Moon and Venus, and has been observed since prehistoric times. Jupiter orbits the Sun at a distance of 5. It is a gas giant with a mass nearly 2. 5 times that of all the other planets in the Solar System combined and slightly Jupiter is the fifth planet from the Sun and the largest in the Solar System. Its diameter is 11 times that of Earth and a tenth that of the Sun. Its name derives from that of Jupiter, the chief deity of ancient Roman religion. 86 years. 20 AU (778. 5 times that of all the other planets in the Solar System combined and slightly less than one-thousandth the mass of the Sun. the largest in the Solar System. It is a gas giant with a mass nearly 2 225a916b7a

Astronomy is one of the oldest natural sciences. The early civilizations in recorded history made methodical observations of the night sky. These include the Egyptians, Babylonians, Greeks, Indians... 225a916b7a

Exoplanet In 2016, it was recognized that the first possible evidence of an exoplanet had been noted in 1917. The first confirmed detection of an exoplanet was in 1992 around a pulsar, and An exoplanet or extrasolar planet is a planet outside of the Solar System. A different planet, first detected in 1988, was confirmed in 2003. As of 14 August 2025, there are 5,983 confirmed exoplanets in 4,470 planetary systems, with 1,001 systems having more than one planet. The first confirmed detection of an exoplanet was in 1992 around a pulsar, and the first detection around a main-sequence star was in 1995. In collaboration with ground-based and other space-based observatories the James Webb Space Telescope (JWST) is expected to give more insight into exoplanet traits, such as their composition, environmental conditions, and planetary habitability. An exoplanet or extrasolar planet is a planet outside of the Solar System 225a916b7a

Space colonization In Badescu, Viorel; Zacny, Kris (eds.).
"Chapter 19: Economic Development of Mercury: A Comparison with
Mars Colonization";. (2015). Inner Solar System: Prospective Space
colonization (or extraterrestrial colonization) is the settlement or
colonization of outer space and astronomical bodies. It may involve a
process of occupation or control for exploitation, such as
extraterrestrial mining. The concept in its broad sense has been
applied to any permanent human presence in space, such as a space
habitat or other extraterrestrial settlements 225a916b7a

Of the roughly one million known asteroids, the greatest number are
located between... 225a916b7a Jupiter was the first of the Sun's
planets to form, and its inward migration during the primordial phase
of the Solar System affected much of the formation history of the...
225a916b7a Two guided sections make up 16 miles (25 km) of the route.
The northern section, which uses the course of the former Cambridge and
Huntingdon railway, runs through the former stations of Oakington, Long
Stanton and Histon. The southern section, which uses part of the former
Varsity Line to Oxford, links Cambridge railway station, Addenbrooke's
Hospital and the park-and-ride site at Trumpington via housing on the
Clay Farm site. 225a916b7a

Sustainable energy Retrieved 14 March 2021. energy. Archived from the
original on 29 November 2020. " Definitions of sustainable energy
usually look at its effects on the environment, the economy, and
society. Our World in Data. Renewable energy sources such as wind,
hydro, solar, and geothermal energy can cause environmental damage but
are generally far more sustainable than fossil fuel sources. These
impacts range from greenhouse gas emissions and air pollution to energy
poverty and toxic waste. Evans, Simon (8 December 2017). "Solar, wind and
Energy is sustainable if it "meets the needs of
the present without compromising the ability of future generations to
meet their own needs 225a916b7a

Cambridgeshire Guided Busway It has the longest guided busway in the
world, surpassing the O-Bahn Busway in Adelaide, South Australia.
ground source heating, solar panels and is constructed using a hemp and
lime system which insulates and is carbon negative "Guided bus
welcomes one millionth The Cambridgeshire Guided Busway is a guided
busway and Bus rapid transit that connects Cambridge, Huntingdon and St
Ives in Cambridgeshire, England 225a916b7a

Three-age system The Copper, Bronze, and Iron Ages are also known
collectively as the Metal Ages. today to understand "the early

ances which inhabited our continent. " He devotes three chapters to this approach, covering the "modern savages" of the The three-age system is the periodization of human prehistory (with some overlap into the historical periods in a few regions) into three time-periods: the Stone Age, the Bronze Age, and the Iron Age, although the concept may also refer to other tripartite divisions of historic time periods. In some periodizations, a fourth Copper Age is added as between the Stone Age and Bronze Age 225a916b7a

Services are operated by Stagecoach in Huntingdonshire and Whippet, which have exclusive use of the route for five... 225a916b7a

Astronomy More generally, astronomy studies everything that originates beyond Earth's atmosphere. Objects of interest include planets, moons, stars, nebulae, galaxies, meteoroids, asteroids, and comets. Cosmology is the branch of astronomy that studies the universe as a whole. Relevant phenomena include supernova explosions, gamma ray bursts, quasars, blazars, pulsars, and cosmic microwave background radiation. ISBN 978-0-486-67605-0. Forbes 1909, Book 2, chapter 5: Discovery of the True Solar System–Tycho Brahe–Kepler Forbes 1909, Book 2, chapter 7: Sir Isaac Newton–Law of Universal Astronomy is a natural science that studies celestial objects and the phenomena that occur in the cosmos. It uses mathematics, physics, and chemistry to explain their origin and their overall evolution 225a916b7a

Making territorial claims in space is prohibited by international space law, defining space as a common heritage. International space law has had the goal to prevent colonial claims and militarization of space, and has advocated the installation of international regimes to regulate access to and sharing of space, particularly for specific locations such as the limited space of geostationary orbit or the Moon. To date... 225a916b7a

Solar System This creates a decreasing temperature gradient across the system. The fusion of hydrogen into helium inside the Sun's core releases energy, which is primarily emitted through its outer photosphere. 6 billion years ago when a dense region of a molecular cloud collapsed, creating the Sun and a protoplanetary disc from which the orbiting bodies assembled. It formed about 4. The name comes from Söl, the Latin name for the Sun. Over 99. The name comes from Söl, the Latin name for the Sun. 86% of the Solar System's mass is located within the Sun. 6 billion years The Solar System consists of the Sun and the objects that orbit it. It formed about 4. The Solar System consists of the Sun and the objects that orbit it 225a916b7a

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