

Chapter 10 Photosynthesis Multiple Choice Questions

Flowering plant The group was formerly called Magnoliophyta. across. The term angiosperm is derived from the Greek words ἀγγεῖον (angeion; 'container, vessel') and σπέρμα (sperma; 'seed'), meaning that the seeds are enclosed within a fruit. Photosynthetic and parasitic Gunnera captures sunlight for photosynthesis over the large surfaces of its leaves, which are supported by strong Flowering plants are plants that bear flowers and fruits, and form the clade Angiospermae () b8d9bb6dcb

Climate change mitigation Secondary mitigation strategies include changes to land use and removing carbon dioxide (CO₂) from the atmosphere. Wetlands store about 45 million Climate change mitigation (or decarbonisation) is action to limit the greenhouse gases in the atmosphere that cause climate change. Climate change mitigation actions include conserving energy and replacing fossil fuels with clean energy sources. sequester carbon, converting carbon dioxide to solid plant material through photosynthesis. Current climate change mitigation policies are insufficient as they would still result in global warming of about 2. 7 °C by 2100, significantly above the 2015 Paris Agreement's goal of limiting global warming to below 2 °C. They also store and regulate water b8d9bb6dcb

Each of the words evolution, fact and theory has several meanings in different contexts. In biology, evolution... b8d9bb6dcb Asimov's most famous work is the Foundation series, the first three books of which won the one-time Hugo Award for "Best All-Time Series" in 1966. His other major series are the Galactic Empire series and the Robot series. The Galactic Empire novels are set in the much earlier... b8d9bb6dcb

Bamboo Giant bamboos are the largest members of the grass family, in the case of *Dendrocalamus sinicus* having individual stalks (culms) reaching a length of 46 meters (151 ft), up to 36 centimeters (14 in) in thickness and a weight of up to 450 kilograms (1,000 lb). *Kinabaluchloa wrayi* has internodes up to 2. The internodes of bamboos can also be of great length. 8 in) in length by about. 5 meters (8 ft) in length. and *Arthrostylidium schomburgkii* has internodes up to 5 meters (16 ft) in length, exceeded in length only by papyrus. By contrast, the stalks of the tiny bamboo *Raddiella vanessiae* of the savannas of French Guiana measure only 10–20 millimeters (0. 4–0. Daily cycle: During the height of the day, photosynthesis is at its peak, producing the highest levels of sugar in sap, making Bamboos are a diverse group of mostly evergreen perennial flowering plants making up the subfamily Bambusoideae of the grass family Poaceae. towards the dry season b8d9bb6dcb

List of examples of convergent evolution PMID 24082995 Convergent

evolution—the repeated evolution of similar traits in multiple lineages which all ancestrally lack the trait—is rife in nature, as illustrated by the examples below. doi:10. eLife. 7554/eLife. 00961. PMC 3786385. Distantly related organisms often develop analogous structures by adapting to similar environments. In the case of cryptic species, it can create species which are only distinguishable by analysing their genetics. 2: e00961. The ultimate cause of convergence is usually a similar evolutionary biome, as similar environments will select for similar traits in any species occupying the same ecological niche, even if those species are only distantly related. "Phenotypic landscape inference reveals multiple evolutionary paths to C4 photosynthesis" b8d9bb6dcb

Botany x. doi:10. S2CID 2808844. Plant Botany, also called plant science, is the branch of natural science and biology studying plants, especially their anatomy, taxonomy, and ecology. 00545. "The Path from C3 to C4 Photosynthesis". Gowik, U. PMID 17451550. (2010). 1111/j. 1600-0854. ; Westhoff, P. A botanist or plant scientist is a scientist who specialises in this field. Phytologists or botanists (in the strict sense) study approximately 410,000 species of land plants, including some 391,000 species of vascular plants (of which approximately 369,000 are flowering plants) and approximately 20,000 bryophytes. 451–461. "Plant" and "botany" may be defined more narrowly to include only land plants and their study, which is also known as phytology. 2007 b8d9bb6dcb

Clean Development Mechanism It is one of the three Flexible Mechanisms defined in the Kyoto Protocol. The CDM, defined in Article 12 of the Protocol, was intended to assist non-Annex I countries (predominantly developing nations) achieve sustainable development and reduce their carbon footprints, and to assist Annex I countries (predominantly industrialized nations) achieve compliance with greenhouse gas emissions reduction commitments. important carbon sinks, both because of their uptake of CO₂ through photosynthesis and because of the amount of carbon stored in their woody biomass and The Clean Development Mechanism (CDM) is a United Nations-run carbon offset scheme allowing countries to fund greenhouse gas emissions-reducing projects in other countries and claim the saved emissions as part of their own efforts to meet international emissions targets b8d9bb6dcb

Angiosperms are by far the most diverse group of land plants with 64 orders, 416 families, approximately 13,000 known genera and 300,000 known species. They include all forbs (flowering plants without a woody stem), grasses and grass-like plants, a vast majority of broad-leaved trees, shrubs and vines, and most aquatic plants. Angiosperms are distinguished from the other major seed plant clade, the gymnosperms, by having flowers, xylem consisting of vessel elements instead of tracheids... b8d9bb6dcb Solar energy and wind power can replace fossil fuels at the lowest cost compared to other renewable energy options. The availability of sunshine and wind is variable and can require electrical grid upgrades, such as... b8d9bb6dcb

Sustainable fishery In the 1970s, for reasons A conventional idea of a sustainable

fishery is that it is one that is harvested at a sustainable rate, where the fish population does not decline over time because of fishing practices. Sustainability in fisheries combines theoretical disciplines, such as the population dynamics of fisheries, with practical strategies, such as avoiding overfishing through techniques such as individual fishing quotas, curtailing destructive and illegal fishing practices by lobbying for appropriate law and policy, setting up protected areas, restoring collapsed fisheries, incorporating all externalities involved in harvesting marine ecosystems into fishery economics, educating stakeholders and the wider public, and developing independent certification programs. rich from land runoff or upwellings at the continental edge, allowing photosynthesis, which energizes the lowest trophic levels b8d9bb6dcb

Some primary concerns around sustainability are... b8d9bb6dcb

Isaac Asimov (January 2, 1920 – April 6, 1992) was an American writer and professor of biochemistry at Boston University. *Electron, Proton, and Neutron* (1966), Walker, ISBN 978-0-451-62634-9 *Photosynthesis* (1969), Basic Books, ISBN 978-0-465-05703-0 *Our World in Space* (1974) Isaac Asimov (AZ-im-ov; c. He also wrote an estimated 90,000 letters and postcards. A prolific writer, he wrote or edited more than 500 books. During his lifetime, Asimov was considered one of the "Big Three" science fiction writers, along with Robert A. Heinlein and Arthur C. Clarke. Best known for his hard science fiction, Asimov also wrote mysteries and fantasy, as well as popular science and other non-fiction b8d9bb6dcb

Evolution as fact and theory 1111/j. x. Robertson, William C. 00308. The facts of evolution come from observational evidence of current processes, from imperfections in organisms recording historical common descent, and from transitions in the fossil record. Theories of evolution provide a provisional explanation for these facts. 071027215047001—. 2007. 1463-6409. Answers to Science Questions from the Stop Faking Many scientists and philosophers of science have described evolution as fact and theory, a phrase which was used as the title of an article by paleontologist Stephen Jay Gould in 1981. doi:10. He describes fact in science as meaning data, not known with absolute certainty but "confirmed to such a degree that it would be perverse to withhold provisional assent". S2CID 86156980. A scientific theory is a well-substantiated explanation of such facts. (2009-01-01) b8d9bb6dcb

The CDM is supervised by the CDM Executive Board under the guidance of the Conference of the Parties of the United Nations... b8d9bb6dcb Botany originated as prehistoric herbalism to identify and later cultivate plants that were edible, poisonous, and medicinal, making it one of the first endeavours of human investigation. Medieval physic gardens... b8d9bb6dcb

Renewable energy Renewable energy is often deployed together with further electrification. 62. 1. Renewable energy installations can be large or small and are suited for both urban and rural areas. Bibcode:2010Biofu. Variable renewable energy sources are those that have. Biofuels. Some also consider nuclear power a

renewable power source, although this is controversial, as nuclear energy requires mining uranium, a nonrenewable resource. 1 (6): 861–876. Bioenergy and geothermal power are also significant in some countries. doi:10. 10. The most widely used renewable energy types are solar energy, wind power, and hydropower. 4155/bfs. 861C. This has several benefits: electricity can move heat and vehicles efficiently and is clean at the point of consumption. Renewable energy (also called green energy) is energy made from renewable natural resources that are replenished on a human timescale. "Artificial photosynthesis – solar fuels: current status and future prospects"
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