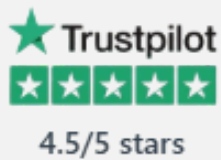
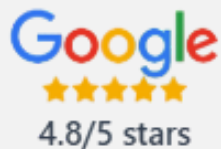


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BIOLOGY

KNOWLEDGE KEEPERS

MODULE -1 WHAT ARE LIVING THINGS AND WHAT ARE THEY MADE OF?

AEROBIC AND ANAEROBIC CELLULAR RESPIRATION

- Aerobic cellular respiration in humans and other organisms
- Anaerobic cellular respiration in humans and other organisms
- The effect of different substrates on cellular respiration in yeast: practical
- Explaining the effect of different substrates on the rate of cellular respiration



TRANSPORT AND EXCHANGE SURFACES IN PLANTS

- Plant roots are adapted to absorb water and mineral ions
- Transport systems in plants: xylem and transpiration
- Observing the structure and distribution of stomata: practical
- Transport systems in plants: phloem and translocation
- Observing xylem and phloem using a light microscope: practical
- The effect of light on water uptake by a plant: practical
- The effects of environmental factors on the rate of water uptake by a plant
- The importance of exchange surfaces and transport systems in plants



BIOLOGY

KNOWLEDGE KEEPERS

MODULE -1 WHAT ARE LIVING THINGS AND WHAT ARE THEY MADE OF?

PHOTOSYNTHESIS: FACTORS AFFECTING THE RATE

- Factors affecting the rate of photosynthesis
- The effect of light intensity on rate of photosynthesis in pondweed: plan
- The effect of light intensity on rate of photosynthesis in pondweed: evaluation
- The effect of light intensity on rate of photosynthesis in algae: plan
- The effect of light intensity on rate of photosynthesis in algae: evaluation
- Light intensity and the inverse square law
- Photosynthesis and limiting factors



BIOLOGY

KNOWLEDGE KEEPERS

MODULE -2 HOW DO LIVING THINGS GROW AND REPRODUCE

HORMONES AND HUMAN REPRODUCTION

- Hormones: puberty, the menstrual cycle and the menopause
- Hormonal control of the menstrual cycle
- Hormonal and non-hormonal methods of contraception
- Using hormones to treat infertility



PLANT GROWTH AND DEVELOPMENT

- Auxins, phototropism and gravitropism
- The effect of light on the growth of seedlings: practical
- The effect of gravity on the growth of seedlings: practical
- The effects of gibberellins and ethene on plant growth and development



GENE TECHNOLOGY

- Genetic engineering, including the main steps
- Genetic testing for healthcare
- Genetic testing for family planning



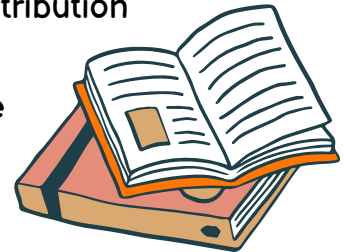
BIOLOGY

KNOWLEDGE KEEPERS

MODULE -3 HOW DO LIVING THINGS LIVE TOGETHER IN THEIR ENVIRONMENTS?

MAINTAINING BIODIVERSITY AND HUMAN IMPACTS

- Transfers of biomass between trophic levels
- Negative human interactions with ecosystems and impacts on biodiversity
- Examples of human interactions with ecosystems, including use of peat
- Benefits and challenges of maintaining biodiversity
- Climate change and biodiversity: changes in the distribution of organisms
- Factors affecting human food security, and possible solutions



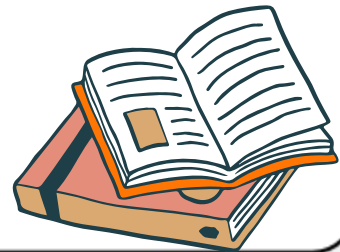
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KNOWLEDGE KEEPERS

MODULE -4 WHY ARE THERE SIMILARITIES AND DIFFERENCES BETWEEN LIVING THINGS?

VARIATION AND NATURAL SELECTION AT THE GENETIC LEVEL

- Variation and genetic mutations
- Natural selection at the genetic level
- Mutations and evolution in bacteria
- Sexual and asexual reproduction



CLASSIFICATION IN MODERN BIOLOGY

- Classifying organisms as eukaryotic or prokaryotic
- Electron microscopy, and the size and scale of cells: including standard form
- Classification into kingdoms and domains: sub-cellular evidence
- Classification and reclassification: genetic evidence



BIOLOGY

KNOWLEDGE KEEPERS

MODULE -5 HOW DO LIVING THINGS STAY HEALTHY

DEFENCES AGAINST PATHOGENS, THE HUMAN IMMUNE SYSTEM AND VACCINATION

- Non-specific defences of the human body against pathogens
- Immunity and vaccination
- Evaluating the global use of vaccination
- Plant defences, and identifying plant diseases



MEDICINES AND NEW TREATMENTS FOR DISEASE

- Antibiotics
- The effect of antimicrobial substances on bacterial growth: practical
- Development of new medicines
- Monoclonal antibodies



BIOLOGY

KNOWLEDGE KEEPERS

MOLECULAR BIOLOGY AND BIOCHEMICAL PATHWAYS

- Non-specific defences of the human body against pathogens
- Immunity and vaccination
- Evaluating the global use of vaccination
- Plant defences, and identifying plant diseases



MEDICINES AND NEW TREATMENTS FOR DISEASE

- Antibiotics
- The effect of antimicrobial substances on bacterial growth: practical
- Development of new medicines
- Monoclonal antibodies



BIOLOGY

KNOWLEDGE KEEPERS

MODULE -6 GENETIC EVIDENCE AND EVOLUTIONARY RELATIONSHIPS

EVIDENCE FOR BIOLOGICAL EVOLUTION THROUGH GENETIC EVOLUTION.

- Genetic changes in a population over time
- Changes in species over time
- Determining the relatedness of species
- Human change over time



MOLECULAR BIOLOGY AND BIOCHEMICAL PATHWAYS

- The relationship between nucleic acids and proteins
- DNA manipulation techniques and applications
- Regulation of biochemical pathways in photosynthesis and cellular respiration

Photosynthesis as an example of biochemical pathways





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