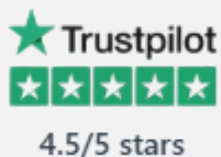


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BIOLOGY

JOURNEY JUMPERS

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

EUKARYOTIC AND PROKARYOTIC CELLS

- Cells
- Light microscopy: observing and drawing cells
- Animal cells: common structures and specialised cells
- Plant cells: common structures and specialised cells
- Eukaryotic and prokaryotic organisms
- Common structures of prokaryotic cells
- The size and scale of cells: including standard form



BIOLOGICAL MOLECULES AND ENZYMES

- Biological molecules
- Tests for biological molecules
- Obtaining the elements needed to make biological molecules
- Enzymes: function, structure and specificity
- Explaining effects of substrate concentration and temperature on enzyme rate
- The effect of pH on the rate of an enzyme reaction: plan
- The effect of pH on the rate of an enzyme reaction: practical



BIOLOGY

JOURNEY JUMPERS

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

TRANSPORT AND EXCHANGE SURFACES IN HUMANS

- The human circulatory system
- The human heart and double circulatory system
- Human blood cells and blood vessels
- Moving into and out of the blood: diffusion, osmosis and active transport
- The importance of exchange surfaces and transport systems in humans



COORDINATION AND CONTROL: THE HUMAN NERVOUS SYSTEM

- The human nervous system
- Neurones and synapses
- The structure and function of a reflex arc
- The human eye
- Common defects of the human eye
- The human brain
- Damage and disease in the human brain, including fMRI and electrical stimulation



BIOLOGY

JOURNEY JUMPERS

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

COORDINATION AND CONTROL: HORMONES AND THE HUMAN ENDOCRINE SYSTEM

- The human endocrine system
- Insulin and the control of blood sugar level
- Type 1 and type 2 diabetes
- Adrenaline, thyroxine and negative feedback



PHOTOSYNTHESIS: REQUIREMENTS AND PRODUCTS

- Producers, photosynthesis and consumers
- Photosynthesis: an endothermic process that takes place in chloroplasts
- Models of photosynthesis
- The requirements and products of photosynthesis: practical



BIOLOGY

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MODULE -2 HOW DO LIVING THINGS GROW AND REPRODUCE?

DNA AND THE GENOME

- The genome
- The chemical structure of DNA
- The genome, the environment and phenotype
- The genetic code
- Protein synthesis
- Mutations and genetic variants
- Genetic variants in genes can influence phenotype



CELL DIVISION: MITOSIS AND MEIOSIS

- Growth in multicellular organisms
- The cell cycle and cell division: mitosis
- The structure of DNA: including nucleotides
- Errors in cell division and cancer: beyond the basics
- Making gametes: meiosis



BIOLOGY

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MODULE -2 HOW DO LIVING THINGS GROW AND REPRODUCE?

STEM CELLS AND DIFFERENTIATION

- Specialised cells, unspecialised cells and differentiation
- Stem cells in animals
- Meristem cells in plants
- Using stem cells in medicine: potential benefits, risks and ethical issues



INHERITANCE, GENOTYPE AND PHENOTYPE

- Alleles, genotype, and phenotype
- Models of single-gene inheritance: Punnett squares
- Models of single-gene inheritance: family tree diagrams
- Explaining inheritance: Mendel and beyond
- The inheritance of biological sex in humans



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

LIVING ORGANISMS AND THEIR ENVIRONMENTS

- Components of an ecosystem
- Measuring the size and distribution of populations of organisms
- Estimating population size using quadrats: practical
- Competition and adaptations in ecosystems
- The role of microorganisms in decomposition
- Factors affecting the rate of decomposition
- Material cycles: the carbon cycle
- Material cycles: the water cycle



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

FOSSIL EVIDENCE, SELECTIVE BREEDING AND EXPLAINING EVOLUTION

- The fossil record provides evidence for evolution
- Common ancestors and transitional species
- Selective breeding and human food security
- The evolution of new species



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MODULE -5 HEALTH AND DISEASE

FOSSIL EVIDENCE, SELECTIVE BREEDING AND EXPLAINING EVOLUTION

- Diseases
- Cardiovascular disease
- Risk factors for non-communicable diseases
- Cancer
- Bacterial and viral diseases in humans: Salmonella and measles
- Fungal and protist diseases in humans
- Sexually transmitted infections
- Plant diseases: TMV and rose black spot



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PATHOGENS AND IMMUNE SYSTEM

- Detecting pathogens
- The first line of defence
- The Second line of defence
- The Third line of defence
- The Lymphatic system



BIOLOGY

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MODULE -6 HOW ARE SPECIES RELATED OVER TIME?

EVOLUTION AND GENETIC CHANGE

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



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