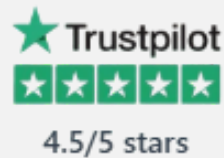


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SCIENCE GROWTH GURUS

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

CELLS

- The common processes of all living organisms
- Observing cells with a light microscope
- Preparing and observing a microscope slide
- Animal cell structures and their functions
- Plant cell structures and their functions
- Multicellular and unicellular organisms
- Specialised cells are adapted for their functions



HUMAN SKELETON AND MUSCLES

- The human skeleton
- Muscles
- Movement
- Biomechanics



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MODULE -2 BIOLOGY: HOW DO LIVING THINGS GROW AND REPRODUCE?

HEREDITY AND DNA

- Heredity
- Heredity and genetic material
- Genetic material and DNA
- A model of the structure of DNA
- DNA from fruit
- The discovery of the structure of DNA
- DNA, chromosomes, genes and the genome



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

ECOSYSTEMS

- Food chains
- Predator-prey relationships
- Adaptations of predators and prey
- Food webs
- Ecosystems and habitats
- Pollination and human food security
- Using chemicals in farming
- Bioaccumulation
- The importance of biodiversity



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MODULE -4 PHYSICS: HOW DOES HEAT AFFECT MATERIALS?

HEATING AND COOLING

- Measuring temperature
- Changing temperature
- Mixing substances of different temperatures
- Cooling
- Thermal conductors
- Thermal insulators
- Energy and temperature
- Energy and substance



SCIENCE

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MODULE -5 CHEMISTRY: HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

SOLID, LIQUID, GAS STATES AND CHANGES OF STATE

- Solid and liquid states
- Melting: particle model
- Bunsen burners
- Melting: melting points and freezing points
- Particle model of substances in the gas state
- Boiling and condensing
- Changes of state: energy and evaporation



SOLUTIONS

- Pure substances
- Mixtures: choosing equipment
- Mixtures: equipment diagrams
- Mixtures and solutions
- Diffusion
- Dissolving
- Variables
- Dissolving: scientific methods
- Solubility: practical
- Saturated solutions



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MODULE -5 CHEMISTRY: HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

SEPARATION TECHNIQUES

- Separating an insoluble solid from a liquid
- Separating a soluble solid from a liquid
- Separating pure salt from dirty rock salt
- Separating liquids
- Simple distillation
- Distillation: practical
- Chromatography



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**MODULE -6 PHYSICS: HOW DO FORCES, ENERGY, AND PARTICLES SHAPE
OUR WORLD AND BEYOND?**

FORCE, ENERGY, WAVES

- Types of force (Contact and Non-Contact)
- Gravity and Balance vs. Unbalanced Forces
- Measuring Forces with Newton meters
- Waves, Sound and Light Introduction
- Sound Waves and Usage
- Light: Reflection, Refraction, Transperancies
- Colour and light spectrum basics



SCIENCE GROWTH GURUS

MODULE -6 PHYSICS: HOW DO FORCES, ENERGY, AND PARTICLES SHAPE OUR WORLD AND BEYOND?

OUR SOLAR SYSTEM AND BEYOND

- The spinning Earth
- Our solar system
- Gravity
- Stars, galaxies and the universe
- Heating by the Sun
- Earth's tilt
- Seasons on Earth
- Changing ideas about Earth



DIFFUSION

- Diffusion: moving particles
- Diffusion through a permeable material: practical
- Diffusion through the cell membrane
- Diffusion through a selectively-permeable membrane: practical



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MODULE -7 PHYSICS: HOW DO WE SEE, HEAR AND COMMUNICATE?

SOUND, LIGHT AND VISION

- Sound vibrations
- Travelling vibrations
- Travelling sound
- Reflecting and absorbing sound
- Shadows
- Reflecting light from mirrors
- How we see things
- Reflections in mirrors



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