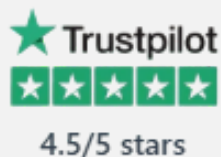
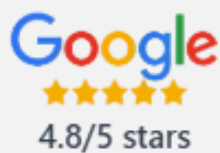




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SCIENCE INNOVATORS

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

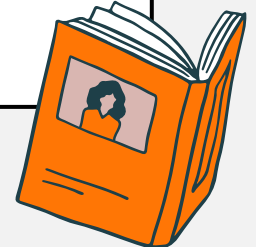
BREATHING AND RESPIRATION

- Breathing, respiration and gas exchange
- The human gas exchange system and breathing
- Estimating lung volume
- Adaptations of the human lungs for gas exchange
- Cellular respiration
- Aerobic cellular respiration
- Anaerobic cellular respiration in humans
- Anaerobic cellular respiration and fermentation in microorganisms



PLANT NUTRITION AND PHOTOSYNTHESIS

- Plant nutrition
- Photosynthesis
- Adaptations of plants for photosynthesis: absorbing light
- Adaptations of plants for photosynthesis: gas exchange and stomata



SCIENCE INNOVATORS

MODULE -2 HOW DO LIVING THINGS GROW AND REPRODUCE?

REPRODUCTION IN PLANTS

- Flower structure
- Pollination and fertilisation
- Insects and food security
- Fruit and seeds
- Factors affecting seed germination: practical
- Factors affecting seed germination: data analysis
- Seed dispersal: practical
- Seed dispersal: data analysis



SCIENCE INNOVATORS

MODULE -3 WHY ARE THERE SIMILARITIES AND DIFFERENCES BETWEEN LIVING THINGS?

ADAPTATIONS, COMPETITION, NATURAL SELECTION AND EVOLUTION

- Fossils show that species change over time
- Understanding time scales
- Adaptations
- Competition
- Heritable variation
- Natural selection
- A model of natural selection
- Evolution



SCIENCE INNOVATORS

MODULE -4 HOW DO LIVING THINGS STAY HEALTHY?

DISEASE AND DRUGS

- Differences between infectious and non-infectious disease
- The gas exchange system in healthy humans
- Lifestyle diseases
- Asthma
- Smoking
- Vaping
- Recreational drug use: depressants
- Recreational drug use: stimulants
- Solvent abuse



SCIENCE INNOVATORS

MODULE -5 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

ACIDS AND BASES

- Acids and bases
- pH scale and universal indicator solution
- Practical: red cabbage indicator solution
- Chemical reactions: acid and metal
- Metal oxides and non-metal oxides
- Chemical reactions: neutralisation
- Chemical reactions: acid and metal carbonate



SCIENCE INNOVATORS

MODULE -6 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

MATERIALS

- Materials and composites: including metals, ceramics and polymers
- Structure of polymers
- The reactivity series for metals
- Chemical reactions: displacement of metals
- Catalysts



PATTERNS IN THE PERIODIC TABLE

- Groups of elements in the periodic table
- Group 1 and 2 metals
- Group 7 (halogens)
- Group 0 (Noble Gases)



SCIENCE INNOVATORS

MODULE -7 HOW CAN SUBSTANCES BE MADE AND CHANGED?

CARBON CYCLE AND CLIMATE CHANGE

- Physical weathering and erosion
- Formation of sedimentary rock
- Fossils and the rock cycle
- Formation of fossil fuels
- Gases in the atmosphere
- Atmospheric carbon
- The carbon cycle



SCIENCE INNOVATORS

MODULE -8 HOW DO FORCES MAKE THINGS HAPPEN?

HIDDEN FORCES

- Gravitational force and weight
- Stretching springs
- Hooke's law
- Stretching rubber
- The force of a floor
- Levers
- Turning forces
- Floating, mass and shape
- Pressure
- Pressure at different depths and heights



SCIENCE INNOVATORS

MODULE -9 WAVES AND SOUND: PROPERTIES, DETECTION,
AND APPLICATIONS

WAVES

- Water waves
- Sound waves
- Speed of sound
- Hearing sound
- Describe what ultrasound is and explain its properties, and also describe some uses of ultrasound



SCIENCE INNOVATORS

MODULE -10 HOW DO ELECTRICITY AND MAGNETISM WORK?

MAGNETS AND ELECTROMAGNETS

- Calculating speed
- Measuring speed accurately
- Reading distance-time graphs
- Interpreting distance-time graphs
- Changing speed
- Newton's first law
- Streamlining
- Comparing the speeds of different parachutes
- Changing the speed of a parachute



SCIENCE INNOVATORS

MODULE -10 HOW DO ELECTRICITY AND MAGNETISM WORK?

RESISTANCE AND PARALLEL CIRCUITS

- Electrical resistance
- Thickness of a wire
- Length of a wire
- Making parallel circuits
- Voltage in parallel circuits
- Loops of a parallel circuit
- Measuring current in a parallel circuit
- Comparing series and parallel circuits
- Mains electricity



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syed mir aijaz Ali
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★★★★★

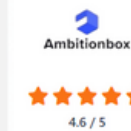
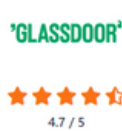
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Shalom SharonLily.
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★★★★★

We had great experience with connect2learn. My child's Maths teacher Shambhavi was very friendly and supportive for my child's progress.



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