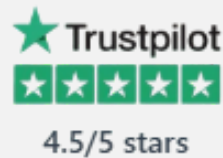


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SCIENCE

FLUENCY FINDERS

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

THE HUMAN CIRCULATORY SYSTEM

- Function of the heart
- Function of blood
- Function of blood vessels
- How nutrients and water are transported within humans
- The circulatory system in humans: plan
- Circulatory system: do and review
- The use of animal hearts in humans (non-statutory)



WHY WE GROUP AND CLASSIFY LIVING THINGS

- Comparing characteristics of living things
- How and why we group animals
- How and why we group plants
- Micro-organisms are living things
- Grouping micro-organisms
- Micro-organisms living on food: plan and do (non-statutory)
- The 5 Rs (non-statutory Climate Change & Sustainability)
- Microorganisms that help us (non-statutory)
- Growing yeast: plan (non-statutory)



SCIENCE FLUENCY FINDERS

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

SUSTAINABILITY

- What are everyday materials made from?
- Why is recycling important?
- What is a life cycle assessment?
- What happens when fuels are burnt?
- What is global warming?
- What is climate change?



SCIENCE

FLUENCY FINDERS

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

EVOLUTION AND INHERITANCE

- Where fossils are found (non-statutory)
- What fossils can tell us about the past
- How living things have changed over time
- Human skulls: using evidence from the past (non-statutory)
- Offspring: similar but not identical
- Inherited characteristics
- Animal adaptations
- Plant adaptations
- The survival of the fittest
- Evolution: evidence



PARTICLES IN PHYSICAL AND CHEMICAL CHANGES

- How do particles in solids, liquids and gases behave?
- What do particles in pure substances and mixtures look like?
- What happens to particles during dissolving?



SCIENCE FLUENCY FINDERS

MODULE -2 HOW DO LIVING THINGS GROW AND REPRODUCE?

HUMANS AND ANIMALS OVER TIME

- What is the Theory of Evolution?
- How do fossils provide evidence for evolution?
- What are the different animal kingdoms?
- Which organisms lived during each era of time?
- What impact have humans had on plants and animals?
- What impact are humans likely to have on life in the future?



SCIENCE

FLUENCY FINDERS

MODULE -3 BIOLOGY: HOW DO LIVING THINGS STAY HEALTHY?

KEEPING HEALTHY

- The impact of a balanced diet
- Healthy and sustainable proteins (non-statutory Climate Change & Sustainability)
- Mushrooms and mycoprotein (non-statutory Climate Change & Sustainability)
- Healthy heart rate
- Heart recovery time after exercise
- Healthy hearts
- Legal and illegal drugs
- The impact of smoking
- The impact of alcohol
- Monitoring and improving lifestyle choices



DIET AND LIFESTYLE

- What are the key parts of a healthy diet?
- Why do people with different lifestyles need different diets?
- What are medicinal drugs?
- What are nicotine and alcohol?



SCIENCE

FLUENCY FINDERS

MODULE -4 CHEMISTRY: WHAT ARE THINGS MADE OF?

MATERIALS AND CHANGES

- Reversible changes (Melting, Freezing, Dissolving)
- Irreversible Changes (Burning, Rusting, Cooking)
- Mixture and Solution (Separating Materials, Filtration, Evaporation)
- Everyday Chemical Changes (Acid, Bases, Reaction)



SCIENCE FLUENCY FINDERS

**MODULE -5 ENVIROMENTAL SCIENCE: HOW CAN WE EXPLAIN
CHANGES IN THE AIR, LAND AND OCEANS?**

CLIMATE CHANGE AND SUSTAINABILITY (NON-STATUTORY)

- Fossil fuels (non-statutory)
- Reducing air pollution (non-statutory)
- What carbon is (non-statutory)
- Reducing our carbon footprint (non-statutory)
- Carbon capture (non-statutory)
- The Sun as an energy source (non-statutory)
- The wind as an energy source (non-statutory)
- Water as an energy source (non-statutory)



SCIENCE

FLUENCY FINDERS

MODULE -6 PHYSICS: WHY DO MATERIALS HAVE DIFFERENT PROPERTIES?

LIGHT AND HOW IT TRAVELS

- How light travels
- Light sources and light reflectors (non-statutory)
- Light enters our eyes
- Reflected light
- Changing the direction of light
- How shadows form
- Shadow shapes investigation



SCIENCE FLUENCY FINDERS

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

CHANGING CIRCUITS

- Components and simple circuits
- Circuit symbols and diagrams
- Electrical discoveries and inventions (non-statutory)
- Investigating voltage: plan
- Variables in electric circuits: plan
- Changing the volume of buzzers
- The position of switches: open and closed
- Choosing and using conductors and insulators (non-statutory)
- How electrical insulators keep us safe (non-statutory)
- Electrical careers
- Sustainable sources of electricity (non-statutory)



SCIENCE FLUENCY FINDERS

**MODULE -8 PHYSICS: HOW DOES THE EARTH, MOON, AND
SOLAR SYSTEM WORK?**

CYCLE OF EARTH AND SOLAR SYSTEM

- Earth Tilt
- Rotation and Revolution
- The Moon and Tides
- The Solar System
- Constellations and Space Exploration



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