

SCIENCE CURRICULUM MAP



FURTHER STUDY

- A LEVELS IN BIOLOGY, CHEMISTRY AND PHYSICS. BTEC LEVEL 3 IN APPLIED SCIENCE

CAREER PATHS

Research scientist, medicine, dentistry, physiotherapy, nursing, engineering, astrophysicist, environmental scientist, forensics and many more

SKILLS

- problem solving, analysis of data, critical thinking

INTEREST

A continued passion and love of learning about how the world works

EXAMS

- Term 3**
- Hormonal coordination
 - Homeostasis in action
 - Reproduction
 - Light
 - Electromagnetism
 - The Earth's atmosphere

- Term 4**
- Variation and evolution
 - Genetics and evolution
 - The Earth's resources
 - Space

- Term 5**
- Biodiversity
 - Using our Resources

REVISION & EXAMS

live: GCSE

ASSESSMENTS AT THE END OF TERMS AND MOCKS IN MARCH

Assessment

- Term 2**
- Electromagnetic waves
 - Force and pressure
 - Wave properties
 - Polymers
 - Organic reactions
 - Chemical analysis

- Term 1**
- Force and motion
 - Rates and equilibrium
 - Crude oil and fuels
 - Hormonal coordination
 - Homeostasis in action

YEAR 11

- Term 6**
- Respiration
 - The human nervous system
 - Rates and equilibrium

- Term 5**
- Non-communicable diseases
 - Photosynthesis
 - Chemical changes
 - Electrolysis

- Term 4**
- Communicable diseases
 - Preventing and treating diseases
 - Chemical calculations

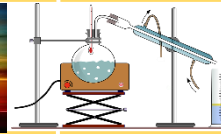
- Term 3**
- Organisation and the digestive system
 - Transport in animals and plants
 - Structure and bonding

Adaptations investigation Term 2



Assessments during each unit and end of term 2, 4 and 6

End of Year Assessment



Assessment Term 2

- Term 3**
- Atomic structure
 - Balancing equations

- Term 4**
- Using and understanding the periodic table

- Term 5**
- Cells
 - Ecology

- Term 6**
- Energy changes

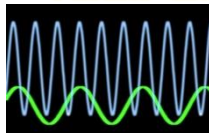
YEAR 10

- Term 1**
- Electric circuits
 - Molecules and matter

- Electricity in the home
- Radioactivity
- Forces in balance

Assessment

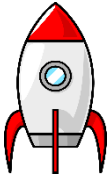
- Term 2**
- Introduction to electrical circuits



Assessments during each unit and end of term 2, 4 and 6

Photosynthesis investigation Term 5

Combustion investigation Term 4



- Term 1**
- Careers in chemistry
 - Energy stores and pathways

YEAR 9

- Term 6**
- Variation and human reproduction
 - Evolution and Inheritance
 - Careers in biology

- Term 5**
- Energy and energy transfer
 - Sound
 - Light
 - Wave effects
 - Wave properties

- Term 4**
- Chemical energy
 - Respiration
 - Photosynthesis

- Term 3**
- Breathing
 - Digestion
 - Electromagnets
 - Types of reactions



Resistance in a wire investigation Term 4

Assessments during each unit and end of term 2, 4 and 6



Assessment Term 2

- Contact forces and pressure
- Elements and periodic table
- Breathing



- Term 4**
- Potential difference and resistance in circuits
 - Current

- Term 5**
- Acids and Alkalis
 - Metals and non-metals

- Term 6**
- Ecosystems and food chains
 - Plant reproduction
 - Careers in physics

YEAR 8

- Term 1**
- Earth Structure and Universe
 - Climate and Earth's resources



Assessment

Neutralisation investigation Term 5



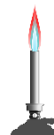
Seed dispersal investigation Term 6

- Term 3**
- Separating mixtures
 - Skeleton and muscles
 - Cells in organisms

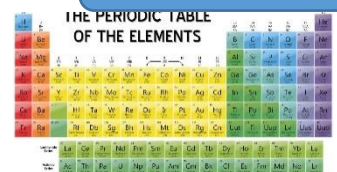
- Term 2**
- Speed
 - Gravity
 - Particle Model

- Introduction to Science**
- Using a Bunsen burner
 - Variables
 - Graph drawing
 - Identifying and using lab equipment

YEAR 7



Polymers investigation Term 2



Change in state investigation Term 2

Assessment

A01 SCIENCE SKILL
Demonstrating knowledge & understanding

A02 SCIENCE SKILL
Apply knowledge and understanding

A03 SCIENCE SKILL
Analyse information and ideas