

A Level Biology

Genetics, populations and ecology
Energy transfer
Essay Skills development
Control of gene expression
Responding to change

A Level Physics

Nuclear Physics
Thermal Physics
Fields
Further Mechanics
Exam Preparation
Turning points

Vocational level 3 Foundation diploma for applied science in Human science

Scientific analysis and reporting

A Level Chemistry

Physical chemistry and transition elements
Organic Chemistry and analysis

Year 12
Year 13
Inheritance Cells
Biological Molecules
Mechanics and Optics
Organisms exchange
Development of practical skills
Foundations in chemistry
Periodic table and energy
Core organic chemistry
GCSEs

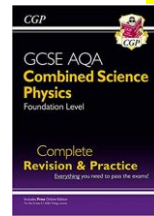
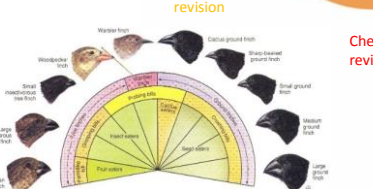
Year 12
Year 13
Human Physiology
Genetics
Science fundamentals
Laboratory techniques
Y12 summer transition tasks
Physics paper 2 revision
Biology paper 2 revision
Chemistry paper 1 revision

Year 13
Particle Physics
Quantum Physics
Electricity
Measurement and errors

Control of hazards
Testing Consumer products
Ecology
Electromagnets



Independence
Independence tasks set for y12 and 13 students to enable them to take ownership of their learning and prepare for future studies After sixth form



Revision sessions provided for KS4 students. Revision resources to enable independent revision from home.



Homework Help provided at lunch times for KS3 students



Ecology Lunch club

- Projects
- Practical skills
- Team work
- Presentation skills

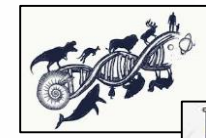
Fenland Labour market



How Science is used in the East of England

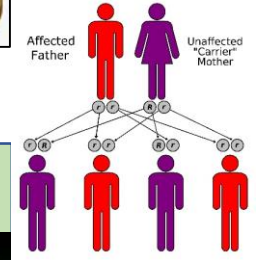
Science & Technology (3.2 million jobs)
Fastest growing sectors include:

- Biotechnology
- Engineering
- Healthcare



Futures (Careers)

Pharmacologist
Zoologist
Astronomer
Biochemist
Engineer
Palaeontologist
Physicist



LORIC opportunities in all lessons

- Leadership
- Organisation
- Resilience
- Initiative
- Communication



Astronomy club

- Guest speakers for student, parents and careers
- Projects
- Practical skills

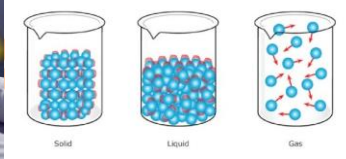


Skills Development
Within KS3 Skills tasks are included to enable student to develop their skills within:

Practical (P)
Describe and Explain exam skills (D)
Numeracy (N)
Evaluate and compare contrast (E)



An Active Learning Trust School



KS2-3 Transition

SATS

KS2 and KS1

YEAR 8

Space
Acids and Alkalis
Separation techniques

YEAR 9

Reproduction
Digestion
Reacting Metals
Electricity
Magnetism
Photosynthesis
Energy transfer and costs
Cells
Atoms and compounds
Advanced Atoms
Inheritance
Particle model and internal energy
Exam skills
Chemical changes

YEAR 10

Advanced inheritance
Waves
Resources
Breathing and respiration
Forces and Speed
Periodic table and gas tests
Rocks
Light and mirrors
Quantitative
Homeostasis
Energy systems and the cost of fuels
Introduction to life processes
Exam skills
Plant infection
Advanced forces
Bioenergetics
Electricity
Plant infection
Bioenergetics
Rates
Bonding
Body Systems
Radiation
Endothermic and exothermic changes
Animal infection

YEAR 11

Ecology
Electromagnets
Control of hazards
Testing Consumer products
Exam skills
Organic
Chemical analysis
Biology paper 1 revision
Physics paper 1 revision
Chemistry paper 2 revision
Independent summer transition tasks
KS4-5 Transition

YEAR 12

Human Physiology
Genetics
Science fundamentals
Laboratory techniques
Y12 summer transition tasks
Physics paper 2 revision
Biology paper 2 revision
Chemistry paper 1 revision

YEAR 13

Measurement and errors
Electricity
Quantum Physics
Particle Physics

YEAR 13

Organisms exchange
Numeracy skills for Biology
Development of practical skills
Foundations in chemistry
Periodic table and energy
Core organic chemistry
GCSEs