CURRICULUM MAP – Year 10 GCSE Biology

Mastering qualifications
Year 10
Term Autumn 14 weeks

KS4 NC: Health, disease and the development of medicines
B4 - Organising animals and plants
B5 - Communicable diseases
B6 - Preventing and treating diseases
KS3 NC Content links
Health, Nutrition and digestion
KS3 NC: Working Scientifically
Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements
Assessment objectives: AO1, AO2, AO3
Working scientifically (KS4 NC): The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)
Required practical: Microbiology
Literacy foci
Reading skills, Comprehension skills, Science glossary of terms, Writing skills
Numeracy foci
Arithmetic and numerical computation, Handling data, Algebra, Graphs
Homework
Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions
Revisiting, revising, remembering opportunities
KS4 DO NOW starter activities, Exam question starters from previous topics
One week revising and teaching students how to revise before EOC assessment
Enrichment/life and work skills:
Group work/collaboration, research skills, public speaking, empathy, cultural awareness
SMSC
Learning about ourselves and how we function or life around us and how it functions alongside the impacts of our interactions with this life, The use of animals in testing for medical advances and when this can be acceptable, the publication by a doctor that the MMR vaccine is linked to autism without rigorous scientific testing and the implications of this on the health of a generation of children in the UK.
Assessments:
End of chapter tests, Exam chapter examination homework questions
Reports to parents :
Extra -Curricular opportunities and Trips:
- **Virtual science club –via TEAMS Aspiring Scientist**
- **Inter-house and Inter school competitions**

Mastering qualifications
Year 10
Term Spring 12 weeks

KS4 NC: Health, disease and the development of medicines and Photosynthesis, cell biology
B7 - Non- communicable diseases
B8 – Photosynthesis
B9 - Respiration
KS3 NC Content links
Health, nutrition and digestion, photosynthesis, cellular respiration
KS3 NC: Working Scientifically
Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements
Assessment objectives: AO1, AO2, AO3
Working scientifically (KS4 NC): The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)
Required practical: Photosynthesis,
Literacy foci
Reading skills, Comprehension skills, Science glossary of terms, Writing skills
Numeracy foci
Arithmetic and numerical computation, Handling data, Algebra, Graphs
Homework
Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions
Revisiting, revising, remembering opportunities
KS4 DO NOW starter activities, Exam question starters from previous topics
One week revising and teaching students how to revise before EOC assessment
Enrichment/life and work skills:
Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness
SMSC
The impact of diet, exercise and drugs on our health, Respiration and Exercise,
Assessments:
End of chapter tests, Exam chapter examination homework questions
Reports to parents :

Extra -Curricular opportunities and Trips:
- **Virtual science club –via TEAMS -Aspiring Scientist**
- **Inter-house and Inter school competitions - Science week**

Mastering qualifications
Year 10
Term Summer 14 weeks

KS4 NC: Cell Biology, Coordination and control
B10 - The human nervous system
B11 - Hormonal coordination

KS3 NC Content links:, the skeletal and muscular systems,
KS3 NC: Working Scientifically
Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements
Assessment objectives: AO1, AO2, AO3
Working scientifically (KS4 NC): The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)
Required practical: Reaction time
Literacy foci
Reading skills, Comprehension skills, Science glossary of terms, Writing skills
Numeracy foci
Arithmetic and numerical computation, Handling data, Algebra, Graphs
Homework
Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions
Revisiting, revising, remembering opportunities
KS4 DO NOW starter activities, Exam question starters from previous topics
One week revising and teaching students how to revise before EOC assessment
Enrichment/life and work skills:
Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness
SMSC
Learning about ourselves and how we function: Nerves and Hormones, Learning about ourselves and how we function: kidney functions, thermoregulation and heart beat to control the internal conditions, contraceptive hormone treatments and consider the positives and negatives of this on health,
Assessments:
End of chapter tests, Exam chapter examination homework questions
Paper 1 Biology- 1hr 45 minutes
Year 10 End of year

Extra -Curricular opportunities and Trips:
- **Virtual science club –via TEAMS -Aspiring Scientist**

The progressive, inclusive curriculum 'skills, knowledge and concepts: literacy, life skills and enrichment'

CURRICULUM MAP – Year 11 GCSE Biology

Mastering qualifications
Year 11
Term - Autumn 14 weeks

KS4 NC: Cell Biology, Coordination and control

B12 – Homeostasis in action

B13 – Reproduction

B14 - Variation and evolution

KS3 NC Content links: The skeletal and muscular system, Reproduction,

KS3 NC: Working Scientifically

Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements

Assessment objectives: AO1, AO2, AO3

Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)

Required Practical: Plant responses

Literacy foci

Reading skills, Comprehension skills, Science glossary of terms, Writing skills

Numeracy foci

Arithmetic and numerical computation, Handling data, Algebra, Graphs

Homework

Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions

Revisiting, revising, remembering opportunities

KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6

Enrichment/life and work skills:

Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness

SMSC

Learning about ourselves and how we function: kidney functions, thermoregulation and heart beat to control the internal conditions, contraceptive hormone treatments and consider the positives and negatives of this on health. the thalidomide drug and how it was used without correct testing and the consequences of this, Focus on the ethics behind IVF and use informed decisions on peoples life situations to decide / debate which couples should be given the limited availability of IVF.

Assessments:

End of chapter tests

PPE1 - Paper 1 Biology – 1 hour 45 minutes

Reports to parents

Extra -Curricular opportunities and Trips:

- **Virtual science club –via TEAMS -Aspiring Scientist**
- **Inter-house and Inter school competitions**

Mastering qualifications
Year 11
Term - Spring 12 weeks

KS4 NC: Evolution, inheritance and variation, ecosystems

B15 – Genetics and evolution

B16 – Adaptions and interdependence

B16 – Organisation of an ecosystem

B17 – The effect of human interaction on ecosystems and biodiversity

KS3 NC Content links inheritance, chromosomes, DNA and genes, relationships un an ecosystem

KS3 NC: Working Scientifically

Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements

Assessment objectives: AO1, AO2, AO3

Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)

Required Practical: Field investigations, decay

Literacy foci

Reading skills, Comprehension skills, Science glossary of terms, Writing skills

Numeracy foci

Arithmetic and numerical computation, Handling data, Algebra, Graphs

Homework

Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions

Revisiting, revising, remembering opportunities

KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6

Enrichment/life and work skills:

Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness

SMSC

Learning about ourselves and how we function: Genetics, Genetic Engineering and cloning - Use understanding of cloning techniques to evaluate whether embryo cloning should be allowed and to what level.

End of chapter tests

PPE 2- Paper 2 Biology – 1 hour 45 minutes

Reports to parents

Extra -Curricular opportunities and Trips:

- **Virtual science club –via TEAMS -Aspiring Scientist**
- **Inter-house and Inter school competitions - Science week**

Mastering qualifications
Year 11
Term - Summer 8 weeks

- **Paper 1 revision for Biology**
- **Paper 2 revision for Biology**

Assessment objectives: AO1, AO2, AO3

Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)

KS3 NC: Working Scientifically

Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements

Required Practical: Revision of all practicals encountered within the GCSE, with a focus on writing the methods.

Literacy foci

Reading skills, Comprehension skills, Science glossary of terms, Writing skills

Numeracy foci

Arithmetic and numerical computation, Handling data, Algebra, Graphs

Homework

Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions

Revisiting, revising, remembering opportunities

KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6

Enrichment/life and work skills:

Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness

SMSC

Revision of all the elements that have been encountered during the GCSE course.

Assessments:

Kerboodle End of Paper 2 test

Walking talking mock

Extra -Curricular opportunities and Trips:

- **Virtual science club –via TEAMS -Aspiring Scientist**

The progressive, inclusive curriculum 'skills, knowledge and concepts: literacy, life skills and enrichment'

CURRICULUM MAP – Year 10 GCSE Chemistry

Mastering qualifications Year 10 Term Autumn 14 weeks	Mastering qualifications Year 10 Term Spring 12 weeks	Mastering qualifications Year 10 Term Summer 14 weeks
KS4 NC: Chemical changes and Energy changes in chemistry **C4 - Chemical calculations** **C5 - Chemical changes** KS3 NC Content links:, atoms, elements and compounds, chemical reactions, KS3 NC: Working Scientifically Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements **Assessment objectives: AO1, AO2, AO3** Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature) Required Practical: Making salts, neutralisation **Literacy foci** Reading skills, Comprehension skills, Science glossary of terms, Writing skills **Numeracy foci** Arithmetic and numerical computation, Handling data, Algebra, Graphs **Homework** Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions **Revisiting, revising, remembering opportunities** KS4 DO NOW starter activities, Exam question starters from previous topics One week revising and teaching students how to revise before EOC assessment **Enrichment/life and work skills:** Group work/collaboration, research skills, public speaking, empathy, cultural awareness SMSC Regular Group work with people from different Religious, Ethnic and Social backgrounds. **Assessments:** End of chapter tests, Exam chapter examination homework questions **Reports to parents :** **Extra -Curricular opportunities and Trips:** • **Virtual science club –via TEAMS -Aspiring Scientist** • **Inter-house and Inter school competitions**	KS4 NC: Chemical changes and Energy changes in chemistry **C6 - Electrolysis** **C7 - Energy changes** KS3 NC Content links: energetics, physical changes KS3 NC: Working Scientifically Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements **Assessment objectives: AO1, AO2, AO3** Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature) Required practical: Electrolysis, Temperature changes **Literacy foci** Reading skills, Comprehension skills, Science glossary of terms, Writing skills **Numeracy foci** Arithmetic and numerical computation, Handling data, Algebra, Graphs **Homework** Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions **Revisiting, revising, remembering opportunities** KS4 DO NOW starter activities, Exam question starters from previous topics One week revising and teaching students how to revise before EOC assessment **Enrichment/life and work skills:** Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness SMSC Regular Group work with people from different Religious, Ethnic and Social backgrounds. **Assessments:** End of chapter tests, Exam chapter examination homework questions **Reports to parents :** **Extra -Curricular opportunities and Trips:** • **Virtual science club –via TEAMS -Aspiring Scientist** • **Inter-house and Inter school competitions - Science week**	KS4 NC: Rate and extent of chemical change **C8 - Rates and equilibrium** **C9 - Crude oil and fuels** KS3 NC Content links: chemical reactions KS3 NC: Working Scientifically Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements **Assessment objectives: AO1, AO2, AO3** Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature) Required practical: Rates of reaction **Literacy foci** Reading skills, Comprehension skills, Science glossary of terms, Writing skills **Numeracy foci** Arithmetic and numerical computation, Handling data, Algebra, Graphs **Homework** Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions **Revisiting, revising, remembering opportunities** KS4 DO NOW starter activities, Exam question starters from previous topics One week revising and teaching students how to revise before EOC assessment **Enrichment/life and work skills:** Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness SMSC Students study the different scientists that have brought about our understanding of science. Students interpret and explain the findings of these key scientists. **Assessments:** End of chapter tests, Exam chapter examination homework questions **Paper 1 Chemistry– 1hr 45 minutes** **Reports to parents** **Extra -Curricular opportunities and Trips:** • **Virtual science club –via TEAMS -Aspiring Scientist**

The progressive, inclusive curriculum 'skills, knowledge and concepts: literacy, life skills and enrichment'

CURRICULUM MAP – Year 11 GCSE Chemistry

Mastering qualifications
Year 11
Term - Autumn 14 weeks

KS4 NC: Chemical and allied industries, Chemical analysis

C8 - Rates and equilibrium

C9 - Crude oil and fuels

C10 – Organic reacctions

C11 - Polymers

KS3 NC Content links: materials, pure and impure substances

KS3 NC: Working Scientifically

Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements

Assessment objectives: AO1, AO2, AO3

Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)

Required Practical: Chromatography, identifying ions

Literacy foci

Reading skills, Comprehension skills, Science glossary of terms, Writing skills

Numeracy foci

Arithmetic and numerical computation, Handling data, Algebra, Graphs

Homework

Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions

Revisiting, revising, remembering opportunities

KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6

Enrichment/life and work skills:

Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness

SMSC

Consider the impact of multiple chemical and industrial processes on the environment - including the combustion of hydrocarbons and the impacts of global warming and acid rain on the environment

Assessments:

End of chapter tests

PPE Paper 1 Chemistry – 1 hour 45 minutes

Reports to parents

Extra -Curricular opportunities and Trips:

- **Virtual science club –via TEAMS -Aspiring Scientist**
- **Inter-house and Inter school competitions**

Mastering qualifications
Year 11
Term - Spring 12 weeks

KS4 NC: Earth and atmospheric science

C12 - Chemical analysis

C13 – Our atmosphere

C14 - The Earth's resources

C15 - Using our resources

KS3 NC Content links earth and atmosphere, Energy and waves

KS3 NC: Working Scientifically

Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements

Assessment objectives: AO1, AO2, AO3

Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)

Required Practical: Water purification

Literacy foci

Reading skills, Comprehension skills, Science glossary of terms, Writing skills

Numeracy foci

Arithmetic and numerical computation, Handling data, Algebra, Graphs

Homework

Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions

Revisiting, revising, remembering opportunities

KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6

Enrichment/life and work skills:

Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness

SMSC

Consider the impact of multiple chemical and industrial processes on the environment - including the combustion of hydrocarbons and the impacts of global warming and acid rain on the environment. the production of ammonia during the Haber process and usage of excessive fertilisers on food chains are considered in detail.

Assessments:

End of chapter tests

PPE Paper 2 Chemistry – 1 hour 45 minutes

Reports to parents :

Extra -Curricular opportunities and Trips:

- **Virtual science club –via TEAMS -Aspiring Scientist**
- **Inter-house and Inter school competitions - Science week**

Mastering qualifications
Year 11
Term - Summer 8 weeks

- **Paper 1 revision for Biology, Chemistry and Physics**
- **Paper 2 revision for Biology, Chemistry and Physics**

Assessment objectives: AO1, AO2, AO3

Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)

Required Practical: Revision of all practicals encountered within the GCSE, with a focus on writing the methods.

Literacy foci

Reading skills, Comprehension skills, Science glossary of terms, Writing skills

Numeracy foci

Arithmetic and numerical computation, Handling data, Algebra, Graphs

Homework

Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions

Revisiting, revising, remembering opportunities

KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6

Enrichment/life and work skills:

Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness

SMSC

Revision of all the elements that have been encountered during the GCSE course.

Assessments:

Kerboodle End of Paper 2 test

Walking talking mock

Extra -Curricular opportunities and Trips:

- **Virtual science club –via TEAMS -Aspiring Scientist**

The progressive, inclusive curriculum 'skills, knowledge and concepts: literacy, life skills and enrichment'

CURRICULUM MAP – Year 10 GCSE Physics

Mastering qualifications Year 10 Term Autumn 14 weeks	Mastering qualifications Year 10 Term Spring 12 weeks	Mastering qualifications Year 10 Term Summer 14 weeks
KS4 NC: Electricity **P4 - Electrical circuits** **P5 - Electricity in the home** **P6 - Molecules and matter** KS3 NC Content links: current electricity KS3 NC: Working Scientifically Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements **Assessment objectives: AO1, AO2, AO3** Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature) Required Practical: Resistance, I-V characteristics **Literacy foci** Reading skills, Comprehension skills, Science glossary of terms, Writing skills **Numeracy foci** Arithmetic and numerical computation, Handling data, Algebra, Graphs **Homework** Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions **Revisiting, revising, remembering opportunities** KS4 DO NOW starter activities, Exam question starters from previous topics One week revising and teaching students how to revise before EOC assessment **Enrichment/life and work skills:** Group work/collaboration, research skills, public speaking, empathy, cultural awareness SMSC Investigating the cost of electricity in the home and ways of saving energy. Ennvironmental and economic effects of using electricity and sustainable living. **Assessments:** End of chapter tests, Exam chapter examination homework questions **Reports to parents :** **Extra -Curricular opportunities and Trips:** • **Virtual science club –via TEAMS -Aspiring Scientist** • **Inter-house and Inter school competitions**	KS4 NC: The structure of matter, Atomic structure **P7 – Radioactivity** **P8 - Forces in balance** **P9 – Motion** KS3 NC Content links: particle model, energy in matter, Balanced forces, motion KS3 NC: Working Scientifically Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements **Assessment objectives: AO1, AO2, AO3** Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature) Required practical: Density **Literacy foci** Reading skills, Comprehension skills, Science glossary of terms, Writing skills **Numeracy foci** Arithmetic and numerical computation, Handling data, Algebra, Graphs **Homework** Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions **Revisiting, revising, remembering opportunities** KS4 DO NOW starter activities, Exam question starters from previous topics One week revising and teaching students how to revise before EOC assessment **Enrichment/life and work skills:** Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness SMSC Radiation- nuclear power and its uses, Ernst Rutherford and the work of Geiger in discovering the structure of the atom and the work on radioactive decay , **Assessments:** End of chapter tests, Exam chapter examination homework questions **Reports to parents :** **Extra -Curricular opportunities and Trips:** • **Virtual science club –via TEAMS -Aspiring Scientist** • **Inter-house and Inter school competitions - Science week**	KS4 NC: Forces and motion **P10 - Force and motion** **P11 – Forces and pressure** KS3 NC Content links: Forces, Motion KS3 NC: Working Scientifically Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements **Assessment objectives: AO1, AO2, AO3** Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature) Required practical: Acceleration, Force and extension **Literacy foci** Reading skills, Comprehension skills, Science glossary of terms, Writing skills **Numeracy foci** Arithmetic and numerical computation, Handling data, Algebra, Graphs **Homework** Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions **Revisiting, revising, remembering opportunities** KS4 DO NOW starter activities, Exam question starters from previous topics One week revising and teaching students how to revise before EOC assessment **Enrichment/life and work skills:** Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness SMSC Investigating stopping distances and factors that affect these in relation to driving cars unsafely, Laws relating to drink driving **Assessments:** End of chapter tests, Exam chapter examination homework questions **Paper 1 Physics – 1hr 45 minutes** **Reports to parents** **Extra -Curricular opportunities and Trips:** • **Virtual science club –via TEAMS -Aspiring Scientist**

The progressive, inclusive curriculum 'skills, knowledge and concepts: literacy, life skills and enrichment'

CURRICULUM MAP – Year 11 GCSE Physics

Mastering qualifications
Year 11
Term - Autumn 12 weeks

KS4 NC: Forces and motion, wave motion
P8 - Forces in balance - Recovery
P9 – Motion
P10 - Force and motion
P11 – Forces and pressure
P12 - Wave properties
KS3 NC Content links: observed waves
KS3 NC: Working Scientifically
Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements
Assessment objectives: AO1, AO2, AO3
Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)
Required Practical: Waves, Light
Literacy foci
Reading skills, Comprehension skills, Science glossary of terms, Writing skills
Numeracy foci
Arithmetic and numerical computation, Handling data, Algebra, Graphs
Homework
Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions
Revisiting, revising, remembering opportunities
KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6
Enrichment/life and work skills:
Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness
SMSC
The use of mobile phones and smart technology
Assessments:
End of chapter tests
PPE Paper 1 GCSE Physics – 1 hour 45 minutes
Years 11 PPE 1 (Monday 8th November to Friday 19th November)
Reports to parents : Year 11 Parents Evening 1– Thursday 9th December

Extra -Curricular opportunities and Trips:
- **Virtual science club –via TEAMS -Aspiring Scientist**
- **Inter-house and Inter school competitions**

Mastering qualifications
Year 11
Term - Spring 11 weeks

KS4 NC: Wave motion, Magnetism and electromagnetism
P13 – Electromagnetic waves
P14 - Light
P15 - Electromagnetism
P16 - Space
KS3 NC Content links: static electricity, magnetism
KS3 NC: Working Scientifically
Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements
Assessment objectives: AO1, AO2, AO3
Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)
Required Practical: Radiation and absorption
Literacy foci
Reading skills, Comprehension skills, Science glossary of terms, Writing skills
Numeracy foci
Arithmetic and numerical computation, Handling data, Algebra, Graphs
Homework
Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions
Revisiting, revising, remembering opportunities
KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6
Enrichment/life and work skills:
Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness
SMSC
Investigating the possibility of colonising Mars, Theories to explain the beginning of the universe and expansion of the universe.
Assessments:
End of chapter tests
PPE Paper 2 Physics – 1 hour 45 minutes
PPE2 – Years 11 (Monday 28th February to Friday 11th March)
Reports to parents :Year 11 Parents Evening 2 (Thursday 31st March)

Extra -Curricular opportunities and Trips:
- **Virtual science club –via TEAMS -Aspiring Scientist**
- **Inter-house and Inter school competitions - Science week**

Mastering qualifications
Year 11
Term - Summer 4 weeks

- **Paper 1 revision for GCSE Physics**
- **Paper 2 revision for GCSE Physics**

Assessment objectives: AO1, AO2, AO3
Working scientifically (KS4 NC: The development of scientific thinking, Experimental skills and strategies, Analysis and evaluation, Vocabulary, units, symbols and nomenclature)
KS3 NC: Working Scientifically
Scientific attitudes, experimental skills and investigations, analysis and evaluation, measurements
Required Practical: Revision of all practicals encountered within the GCSE, with a focus on writing the methods.
Literacy foci
Reading skills, Comprehension skills, Science glossary of terms, Writing skills
Numeracy foci
Arithmetic and numerical computation, Handling data, Algebra, Graphs
Homework
Kerboodle online tasks, Doddle online tasks, Seneca online tasks, End of chapter examination questions
Revisiting, revising, remembering opportunities
KS4 DO NOW starter activities, Exam question starters from previous topics, one week revising and teaching students how to revise before EOC assessment, period 6
Enrichment/life and work skills:
Group work/collaboration, research skills, public speaking, empathy, time management, perseverance, cultural awareness
SMSC
Revision of all the elements that have been encountered during the GCSE course.
Assessments:
Kerboodle End of Paper 2 test
Walking talking mock

Extra -Curricular opportunities and Trips:
- **Virtual science club –via TEAMS -Aspiring Scientist**

The progressive, inclusive curriculum 'skills, knowledge and concepts: literacy, life skills and enrichment'