

Curriculum Journey

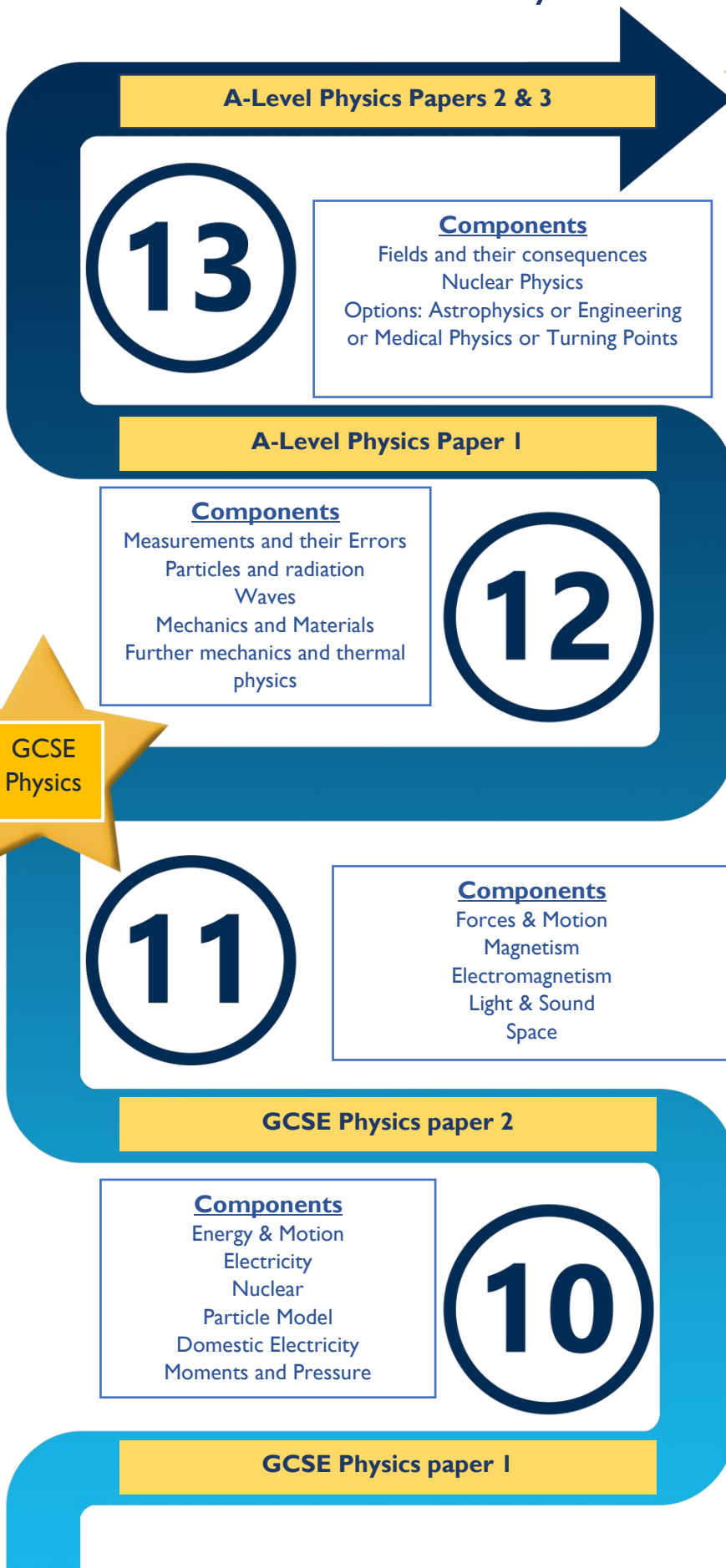
KS4 & KS5 Physics

Careers
 University,
 Apprenticeship
 Astrophysics,
 Aerospace,
 Engineering,
 Research,
 Scientist,
 Data Science

NEA
 Required
 Practicals
 Endorsement at
 KS5

Next Steps
 A level Biology,
 Chemistry,
 Physics, BTEC
 Forensic Science

Skills for Life
 Independence
 Resilience
 Problem solving
 Creativity
 Time
 management
 Communication
 Logical thinking



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Components
 Fields and their consequences
 Nuclear Physics
 Options: Astrophysics or Engineering
 or Medical Physics or Turning Points

A-Level Physics Paper I

Components
 Measurements and their Errors
 Particles and radiation
 Waves
 Mechanics and Materials
 Further mechanics and thermal
 physics

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Components
 Forces & Motion
 Magnetism
 Electromagnetism
 Light & Sound
 Space

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GCSE Physics paper 2

Components
 Energy & Motion
 Electricity
 Nuclear
 Particle Model
 Domestic Electricity
 Moments and Pressure

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GCSE Physics paper I



Skills and Knowledge Building
Mathematical skills:
 6.1 Arithmetic and numerical computation
 6.2 Handling data
 6.3 Algebra
 6.4 Graphs
 6.5 Geometry and trigonometry
Practical Skills:
 Demonstrate knowledge and understanding of scientific ideas, processes, techniques and procedures
 Apply knowledge and understanding of scientific ideas, processes, techniques and procedures: in a theoretical context in a practical context when handling qualitative data when handling quantitative data
 Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, to: make judgements and reach conclusions develop and refine practical design and procedures.

Skills and Knowledge Building
 AO1: Demonstrate knowledge and understanding of scientific ideas; scientific techniques and procedures.
 AO2: Apply knowledge and understanding of: scientific ideas; scientific enquiry, techniques and procedures.
 AO3: Analyse information and ideas to: interpret and evaluate; make judgments and draw conclusions; develop and improve experimental procedures.

