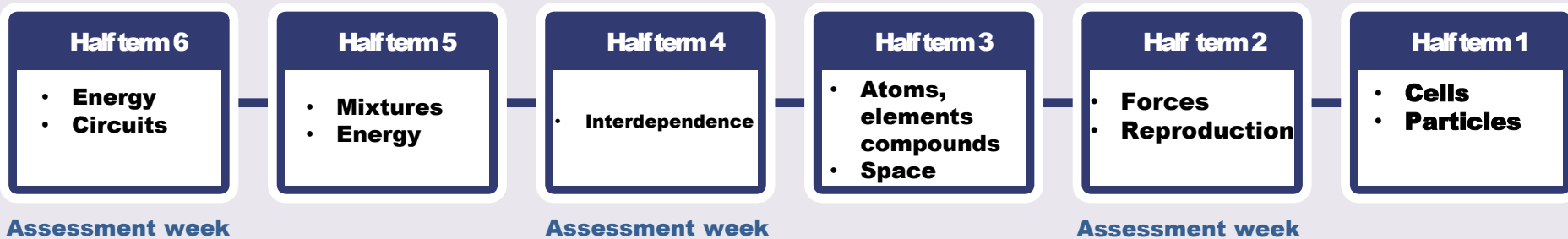


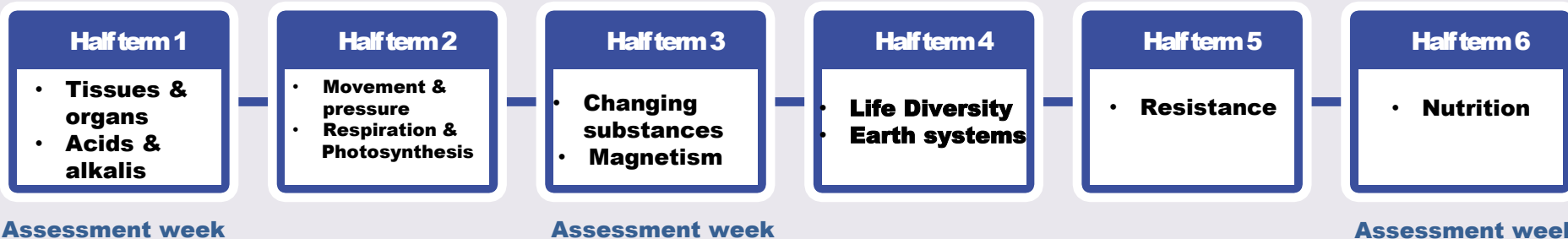
Science Curriculum Map: Year 7 to Year 11

Key Stage 3

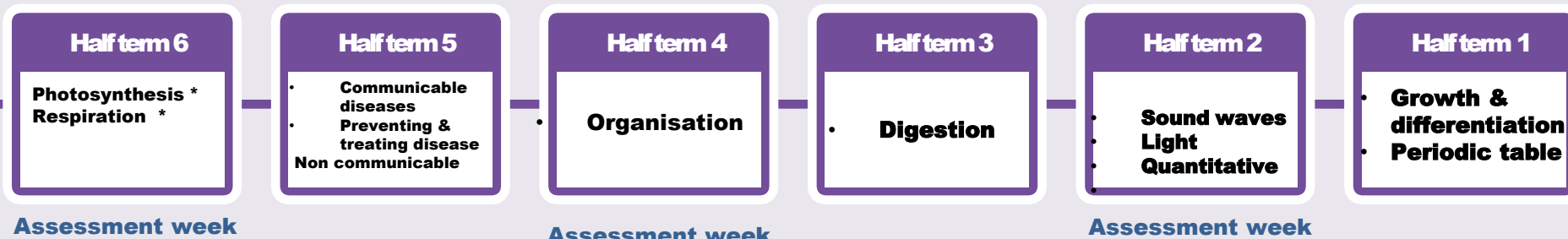
Year Seven - Ark Mastery



Year Eight - Ark Mastery

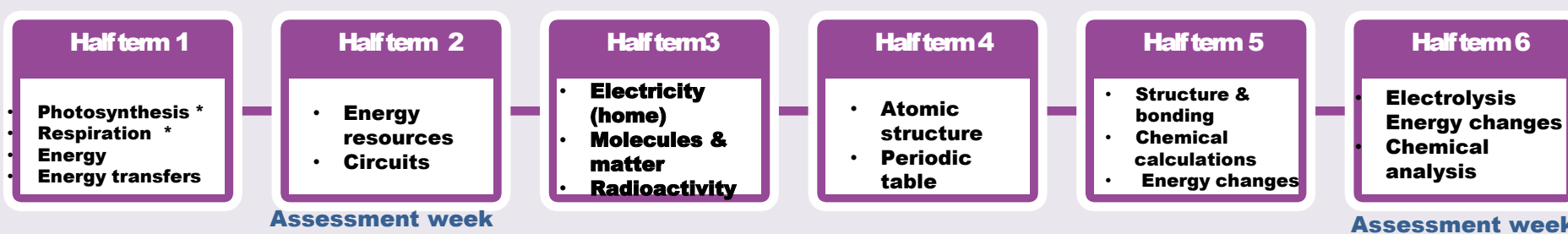


Year Nine - Ark Mastery/AQA

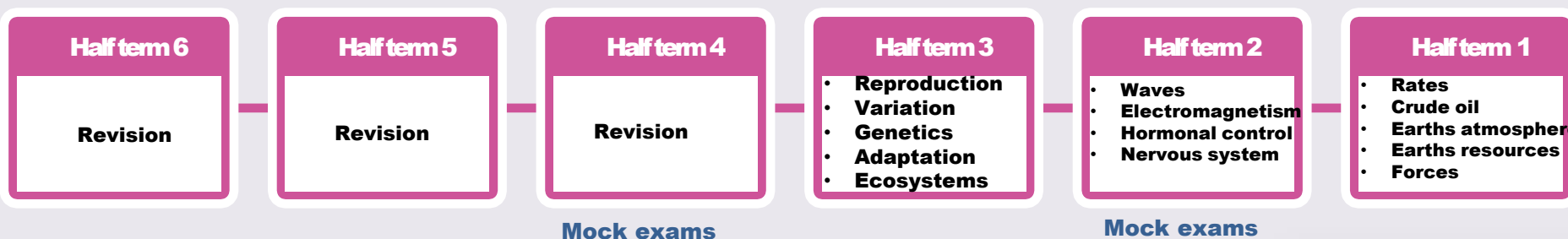


Year Ten - AQA

Key Stage 4 - GCSE



Year Eleven AQA



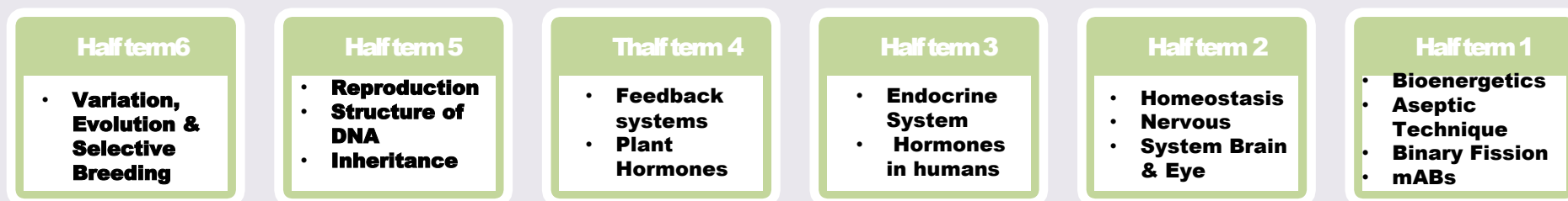
Further Education/Employment

Triple Science Curriculum Map: Year 10 2026-2027

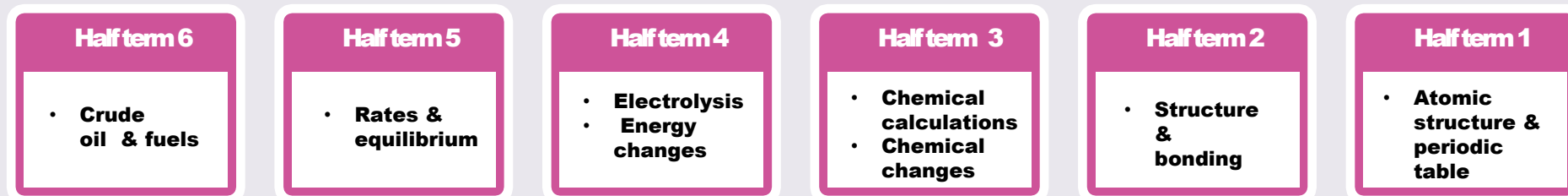


Year Ten

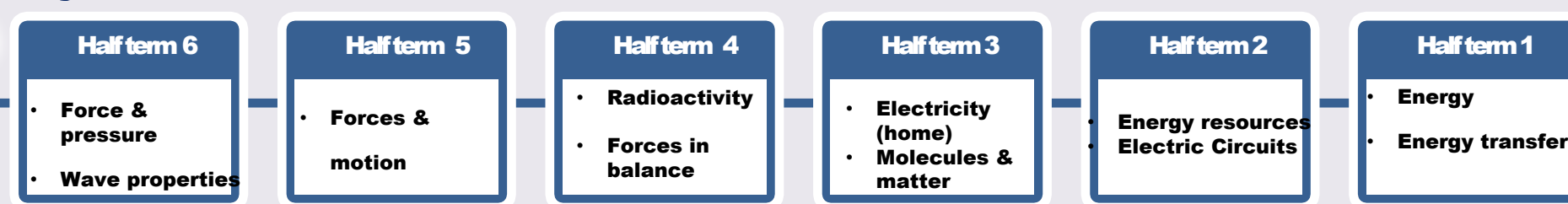
Biology



Chemistry



Physics



Mock exams

Mock exams

Further Education/Employment

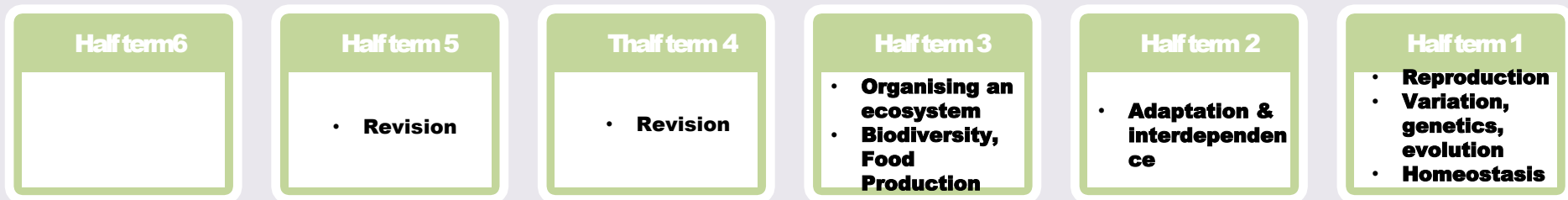


Triple Science Curriculum Map: Year 11 2026-2027



Year Eleven

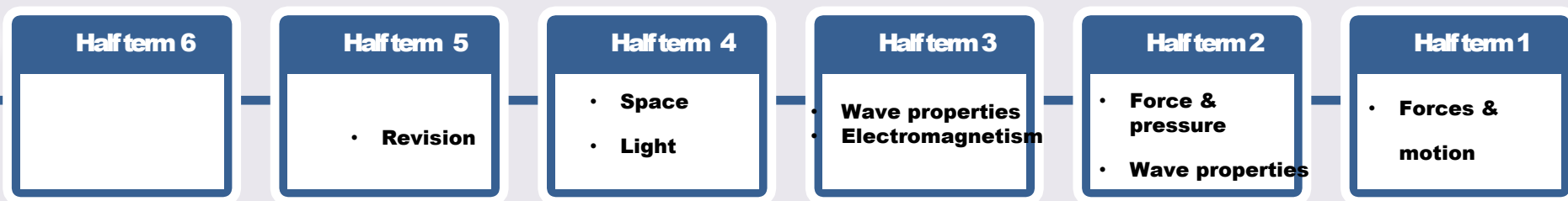
Biology



Chemistry



Physics



Mock exams

Mock exams

Further Education/Employment



Science Curriculum 2025 – 2026



Rationale

‘To be curious about the world around us, to learn through scientific discovery, and to be the scientists and innovators of the future’

Intent

Our science curriculum is **ambitious, knowledge-rich and coherently sequenced**, ensuring all pupils develop secure understanding of biology, chemistry and physics.

Pupils:

Develop substantive and disciplinary knowledge over time

Build scientific thinking and practical skills

Retain knowledge through systematic retrieval practice

Apply, analyse and evaluate ideas in familiar and unfamiliar contexts

Knowledge is carefully sequenced and revisited to strengthen long-term retention. The curriculum is inclusive by design, with all pupils accessing the same ambitious content, preparing them for GCSE and future STEM pathways.

Implementation

Curriculum Structure

At KS3, pupils follow the ARK Mastery curriculum, providing a secure, sequenced foundation.

3 × 60-minute lessons per week

Pre-tests and end-of-unit mastery quizzes

Weekly Sparx Science homework to consolidate learning

In Year 9, pupils complete the KS3 spiral curriculum and transition to the linear AQA GCSE Scheme, enabling greater depth of study and preparing them for the demands of KS4

At KS4:

Combined Science: 5 × 60-minute lessons per week taught by one science specialist

Triple Science: 8 × 60-minute lessons per week taught by three subject specialists

The science curriculum is carefully sequenced to ensure pupils build secure substantive and disciplinary knowledge over time. Key concepts are revisited throughout Key Stages 3 and 4 through planned retrieval practice, interleaved assessment and homework. Socratic/Do Now recall quizzes and Sparx Follow-Up 5 tasks provide spaced retrieval of previously taught content, helping pupils strengthen long-term memory and make connections between topics. In Year 9, pupils transition from the ARK Mastery curriculum to the AQA KS4 specification. Retrieval and interleaving continue throughout this transition to ensure knowledge from biology, chemistry and physics remains secure as pupils begin GCSE study.

Teaching Approach

KS3 (ARK Mastery):

Do Now: retrieval practice

Structured activities to embed understanding

Exit ticket to check learning

Scientist in the Spotlight to link to careers

Weekly Sparx homework

KS4 (AQA):

Socratic recall quizzes

Weekly Sparx homework + Follow-Up 5

Booklets include:

Must-Know knowledge

Prior/next learning links

Big 5 Science skills

Key vocabulary + Frayer models

Reading to develop disciplinary literacy

Linked careers

Regular exam-style questions

Adaptive Teaching

All pupils access the full curriculum, supported through:

Scaffolding without lowering challenge

Explicit vocabulary teaching

Targeted questioning

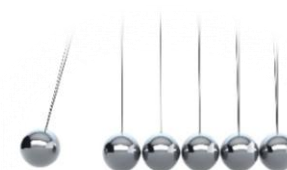
Challenge through depth

Wider Implementation

Digital booklets on iPads ensure consistency

Practical work is recorded and evaluated digitally

Working scientifically is explicitly taught through a consistent approach to practical work, ensuring students can observe, measure, analyse, present and evaluate data across all sciences





Impact

Pupils know more, remember more and can apply their knowledge effectively:

Secure, long-term scientific knowledge

Strong performance in exam-style questions

Accurate use of scientific vocabulary

Confident practical and analytical skills

Assessment is used formatively and summatively to identify gaps and inform responsive teaching, including targeted retrieval, live reteaching and adaptation within lessons.

All pupils study a broad, ambitious and well-sequenced curriculum. Through consistent routines, retrieval and adaptive teaching, pupils successfully learn, retain and apply scientific knowledge over time.