What ideas explain the physical world?

AREA OF STUDY 1 How can thermal effects be explained?
- Chapter 1 Heat, temperature and internal energy
- Chapter 2 Energy in transit
- Chapter 3 The physics of climate change

AREA OF STUDY 2 How do electric circuits work?
- Chapter 4 Current electricity
- Chapter 5 Circuit analysis
- Chapter 6 Using electricity

AREA OF STUDY 3 What is matter and how is it formed?
- Chapter 7 Radioactivity and the nucleus
- Chapter 8 Sub-atomic particles
- Chapter 9 From the Big Bang to atoms

UNIT 2

What do experiments reveal about the physical world?

AREA OF STUDY 1 How can motion be described and explained?
- Chapter 10 Analysing movement
- Chapter 11 Forces in action
- Chapter 12 Mechanical interactions

AREA OF STUDY 3 Practical investigation
- Chapter 13 Practical investigations

AREA OF STUDY 2 Options
- Chapter 14 What are stars?
- Chapter 15 Is there life beyond Earth’s Solar System?
- Chapter 16 How do forces act on the human body?
- Chapter 17 How can AC electricity charge a DC device?
- Chapter 18 How do heavy things fly?
- Chapter 19 Are fusion and fission viable nuclear energy power sources?
- Chapter 20 How is radiation used to maintain human health?
- Chapter 21 How do particle accelerators and colliders work?
- Chapter 22 How can human vision be extended?
- Chapter 23 How do instruments make music?
- Chapter 24 How can performance in ball sports be improved?
- Chapter 25 How does the human body use electricity?
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UNIT 1

How do living things stay alive?
AREA OF STUDY 1 How do organisms function?
Chapter 1 Cells: basic units of life on Earth
Chapter 2 From unicellular to multicellular
Chapter 3 Energy transformations
Chapter 4 Staying alive: systems in action
AREA OF STUDY 2 How do living systems sustain life?
Chapter 5 Adaptations for survival
Chapter 6 Survival through regulation
Chapter 7 Biodiversity and its organisation
Chapter 8 Relationships within an ecosystem

UNIT 2

How is continuity of life maintained?
AREA OF STUDY 1 How does reproduction maintain the continuity of life?
Chapter 9 The cell cycle
Chapter 10 Asexual reproduction
Chapter 11 Sexual reproduction
Chapter 12 Stem cells: in development and in therapy
AREA OF STUDY 2 How is inheritance explained?
Chapter 13 Genomes, genes and alleles
Chapter 14 Chromosomes: carriers of genes
Chapter 15 Genotypes and phenotypes
Chapter 16 Outcomes of genetic crosses

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</tr>
</thead>
<tbody>
<tr>
<td>ASSIGN</td>
<td>practice questions, topic tests and sample semester exams for your students to complete</td>
</tr>
<tr>
<td>MONITOR</td>
<td>your students’ activity, drilling down to pinpoint strengths and weaknesses</td>
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<tr>
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<td>on student progress and generate and schedule reports</td>
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