Syllabus

Cambridge International AS & A Level
Physical Education 9396

Use this syllabus for exams in 2023.
Exams are available in the June and November series.
## Changes to the syllabus for 2023

The latest syllabus is version 1, published September 2020. There are no significant changes which affect teaching. **You are strongly advised to read the whole syllabus before planning your teaching programme.**
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Why choose Cambridge International?

Cambridge International prepares school students for life, helping them develop an informed curiosity and a lasting passion for learning. We are part of the University of Cambridge.

Our Cambridge Pathway gives students a clear path for educational success from age 5 to 19. Schools can shape the curriculum around how they want students to learn – with a wide range of subjects and flexible ways to offer them. It helps students discover new abilities and a wider world, and gives them the skills they need for life, so they can achieve at school, university and work.

Our programmes and qualifications set the global standard for international education. They are created by subject experts, rooted in academic rigour and reflect the latest educational research. They provide a strong platform for students to progress from one stage to the next, and are well supported by teaching and learning resources.

We review all our syllabuses regularly, so they reflect the latest research evidence and professional teaching practice – and take account of the different national contexts in which they are taught.

We consult with teachers to help us design each syllabus around the needs of their learners. Consulting with leading universities has helped us make sure our syllabuses encourage students to master the key concepts in the subject and develop the skills necessary for success in higher education.

Our mission is to provide educational benefit through provision of international programmes and qualifications for school education and to be the world leader in this field. Together with schools, we develop Cambridge learners who are confident, responsible, reflective, innovative and engaged – equipped for success in the modern world.

Every year, nearly a million Cambridge students from 10 000 schools in 160 countries prepare for their future with the Cambridge Pathway.

“We think the Cambridge curriculum is superb preparation for university.”

Christoph Guttentag, Dean of Undergraduate Admissions, Duke University, USA

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Christoph Guttentag, Dean of Undergraduate Admissions, Duke University, USA

“Cambridge students develop a deep understanding of subjects and independent thinking skills.”

Principal, Rockledge High School, USA
Why choose Cambridge International AS & A Levels?

The best motivation for a student is a real passion for the subject they’re learning. By offering students a variety of Cambridge International AS & A Levels, you can give them the greatest chance of finding the path of education they most want to follow. With over 50 subjects to choose from, students can select the ones they love and that they’re best at, which helps motivate them throughout their studies.

Following a Cambridge International AS & A Level programme helps students develop abilities which universities value highly, including:

- a deep understanding of their subjects
- higher order thinking skills – analysis, critical thinking, problem solving
- presenting ordered and coherent arguments
- independent learning and research.

Our approach in Cambridge International AS & A Level encourages learners to be:

- confident in working with information and ideas – their own and those of others
- responsible for themselves, responsive to and respectful of others
- reflective as learners, developing their ability to learn
- innovative and equipped for new and future challenges
- engaged intellectually and socially, ready to make a difference.

Cambridge International AS & A Level offers a choice of assessment routes with staged assessment available in many subjects: Cambridge International AS Level can be offered as a standalone qualification or as part of a progression to Cambridge International A Level:

**Option one**

Cambridge International AS Level (standalone AS)

Students take the Cambridge International AS Level only. The syllabus content for Cambridge International AS Level is half of a Cambridge International A Level programme.

**Option two**

Cambridge International A Level (remainder of A Level)

Students take the Cambridge International AS Level in Year 1 and in Year 2 complete the Cambridge International A Level.

**Option three**

Cambridge International A Level

Students take all papers of the Cambridge International A Level course in the same examination series, usually at the end of the second year of study.
International recognition and acceptance

Our expertise in curriculum, teaching and learning, and assessment is the basis for the recognition of our programmes and qualifications around the world. Every year thousands of students with Cambridge International AS & A Levels gain places at leading universities worldwide. They are valued by top universities around the world including those in the UK, US (including Ivy League universities), Europe, Australia, Canada and New Zealand.

UK NARIC, the national agency in the UK for the recognition and comparison of international qualifications and skills, has carried out an independent benchmarking study of Cambridge International AS & A Level and found it to be comparable to the standard of AS & A Level in the UK. This means students can be confident that their Cambridge International AS & A Level qualifications are accepted as equivalent, grade for grade, to UK AS & A Levels by leading universities worldwide.

Learn more
For more details go to www.cambridgeinternational.org/recognition

Quality management

Cambridge International is committed to providing exceptional quality. In line with this commitment, our quality management system for the provision of international qualifications and education programmes for students aged 5 to 19 is independently certified as meeting the internationally recognised standard, ISO 9001:2015. Learn more at www.cambridgeinternational.org/ISO9001

Cambridge Assessment International Education is an education organisation and politically neutral. The contents of this syllabus, examination papers and associated materials do not endorse any political view. We endeavour to treat all aspects of the exam process neutrally.

“The depth of knowledge displayed by the best A Level students makes them prime targets for America’s Ivy League universities”

Yale University, USA
Why choose Cambridge International AS & A Level Physical Education?

About the syllabus
The Cambridge International AS & A Level Physical Education syllabus is both practical and theoretical. As well as fostering enjoyment in physical activity, it will encourage students to develop an understanding of the interaction between theory and practice by focusing on the performer and performance.

Students learn about anatomy and physiology, movement skills and contemporary studies at Cambridge International AS Level. This provides a firm foundation for the further advanced study of exercise, physiology, psychology of sport performance and the study of the Olympic Games from a global perspective.

The syllabus provides an excellent grounding for students intending to pursue careers in teaching and coaching, sports development, the leisure industry, recreational management and professional sport.

Guided learning hours
Guided learning hours give an indication of the amount of contact time teachers need to have with learners to deliver a particular course. Our syllabuses are designed around 180 guided learning hours for Cambridge International AS Level, and around 360 guided learning hours for Cambridge International A Level.

These figures are for guidance only. The number of hours needed to gain the qualification may vary depending on local practice and the learners’ previous experience of the subject.

Prior learning
We recommend that learners who are beginning this course should have previously completed a Cambridge O Level or Cambridge IGCSE™ course in Physical Education or the equivalent.

Progression
Cambridge International AS Level Physical Education is the first half of Cambridge International A Level Physical Education. Depending on local university entrance requirements, the qualification may permit or assist progression directly to university courses in Physical Education or some other subjects.

We recommend learners check the Cambridge recognitions database and the university websites to find the most up-to-date entry requirements for courses they wish to study.

How can I find out more?
If you are already a Cambridge school
You can make entries for this qualification through your usual channels. If you have any questions, please contact us at info@cambridgeinternational.org

If you are not yet a Cambridge school
Learn more about the benefits of becoming a Cambridge school from our website at www.cambridgeinternational.org/join
Email us at info@cambridgeinternational.org to find out how your organisation can register to become a Cambridge school.
Cambridge AICE

Cambridge AICE (Advanced International Certificate of Education) Diploma is the group award of the Cambridge International AS & A Level. It gives schools the opportunity to benefit from offering a broad and balanced curriculum by recognising the achievements of candidates who pass examinations from different curriculum groups.

Learn more
For more details go to www.cambridgeinternational.org/aice

“ Our research has shown that students who came to the university with a Cambridge AICE background performed better than anyone else that came to the university. That really wasn’t surprising considering the emphasis they have on critical research and analysis, and that’s what we require at university.”

Assistant Vice President for Enrollment Management, Florida State University, USA

“ Cambridge International AS & A Levels prepare students well for university because they’ve learnt to go into a subject in considerable depth. There’s that ability to really understand the depth and richness and the detail of a subject. It’s a wonderful preparation for what they are going to face at university.”

US Higher Education Advisory Council
Supporting teachers

We provide a wide range of resources, detailed guidance and innovative training and professional development so that you can give your students the best possible preparation for Cambridge International AS & A Level. To find out which resources are available for each syllabus go to our School Support Hub.

The School Support Hub is our secure online site for Cambridge teachers where you can find the resources you need to deliver our programmes. You can also keep up to date with your subject and the global Cambridge community through our online discussion forums.

Find out more at www.cambridgeinternational.org/support

Planning and preparation
- Next step guides
- Schemes of work
- Specimen papers
- Syllabuses
- Teacher guides

Teaching and assessment
- Endorsed resources
- Online forums
- Support for coursework and speaking tests

Learning and revision
- Example candidate responses
- Learner guides
- Past papers and mark schemes
- Specimen paper answers

Results
- Candidate Results Service
- Principal examiner reports for teachers
- Results Analysis

Sign up for email notifications about changes to syllabuses, including new and revised products and services at www.cambridgeinternational.org/syllabusupdates

Professional development

We support teachers through:
- Introductory Training – face-to-face or online
- Extension Training – face-to-face or online
- Enrichment Professional Development – face-to-face or online

Find out more at www.cambridgeinternational.org/events

- Cambridge Professional Development Qualifications

Find out more at www.cambridgeinternational.org/profdev

Supporting exams officers

We provide comprehensive support and guidance for all Cambridge exams officers. Find out more at:

www.cambridgeinternational.org/eoguide
## 1 Assessment at a glance

### Advanced Subsidiary (AS) Level: Candidates take papers 1 and 2

### Advanced (A) Level: Candidates take papers 1, 2, 3 and 4

<table>
<thead>
<tr>
<th>Component</th>
<th>Type of assessment</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AS Written paper&lt;br&gt;Three compulsory questions (2½ hours)</td>
<td>70 35</td>
</tr>
<tr>
<td>2</td>
<td>AS Coursework&lt;br&gt;Centre-based assessment</td>
<td>30 15</td>
</tr>
<tr>
<td>3</td>
<td>A Level Written paper&lt;br&gt;Three compulsory questions (2½ hours)</td>
<td>– 35</td>
</tr>
<tr>
<td>4</td>
<td>A Level Coursework&lt;br&gt;Centre-based assessment</td>
<td>– 15</td>
</tr>
</tbody>
</table>
Availability

This syllabus is examined in the June and November examination series.

This syllabus is not available to private candidates.

Detailed timetables are available from www.cambridgeinternational.org/timetables

Centres in the UK that receive government funding are advised to consult the Cambridge website www.cambridgeinternational.org for the latest information before beginning to teach this syllabus.

Combining this with other syllabuses

Candidates can combine this syllabus in an examination series with any other Cambridge International syllabus, except:

- syllabuses with the same title at the same level.
2 Syllabus aims and assessment objectives

2.1 Syllabus aims

The aims of a course based on this syllabus, whether leading to a Cambridge International AS or A Level qualification, are:

- to provide a knowledge and understanding of the conceptual basis, structure and function of a selection of physical education activities
- to develop understanding and problem-solving skills (interpretation and evaluation)
- to develop planning and practical skills for effective performance
- to foster an ability to relate practice to theory, and theory to practice
- to develop an understanding of the physiological, socio-cultural and psychological factors which influence physical education
- to provide an experience which is valuable, both as a means of personal development and as a foundation for employment or more advanced study.

In addition, the Advanced Level syllabus aims to encourage candidates:

- to develop the capacity to think critically about the relationships between the different factors influencing performance
- to develop a capacity to explain global trends in physical education and sport.

2.2 Assessment objectives

Candidates are expected to demonstrate the following in the context of the content described:

AO1: knowledge with understanding
AO2: the ability to apply practical skills, knowledge and understanding to physical activity
AO3: the ability to analyse and critically evaluate practical performance.
2.3 Scheme of assessment

Carrying forward moderated coursework

Marks achieved in Component 2, AS Coursework, can be carried forward on their own to future series, subject to the requirements set out in the Cambridge Handbook. This can be done by making entries for either of the following options:

AS Level only awarding: the AS Level entry option, where Component 1 is taken and the marks of Component 2 have been carried forward.

or

A Level awarding: the A Level entry option, where components 1, 3 and 4 are taken and the marks of Component 2 have been carried forward.

Note: the marks from the specific entry options listed above cannot be used as a staged route to complete a full A Level.

To confirm what entry options are available for a syllabus, refer to the Cambridge Guide to Making Entries for the relevant series.
## Component Weighting

<table>
<thead>
<tr>
<th>Component</th>
<th>Weighting (%)</th>
<th>AS</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Paper 1</strong></td>
<td>(2½ hours)</td>
<td>70</td>
<td>35</td>
</tr>
<tr>
<td>AS written paper, consisting of three sections:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section A: Applied anatomy and physiology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section B: Acquiring, developing and performing movement skills</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section C: Contemporary studies in physical education and sport</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One compulsory question worth 30 marks on each of the three sections. (90 marks)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Paper 2</strong></td>
<td></td>
<td>30</td>
<td>15</td>
</tr>
<tr>
<td>AS Coursework</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candidates will follow a minimum of two activities from the activity profiles offered. Assessment will take place in conditioned competitive situations/prescribed situations. (2 × 30 marks)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candidates will also produce a written action plan. Candidates should design, explain and follow an action plan for improvement in one of their chosen activities. (30 marks)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coursework will be internally assessed and externally moderated by Cambridge International.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Paper 3</strong></td>
<td>(2½ hours)</td>
<td>–</td>
<td>35</td>
</tr>
<tr>
<td>A Level written paper, consisting of three sections:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section A: Exercise and sport physiology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section B: Psychology of sport performance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section C: Olympic Games: a global perspective</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One compulsory question worth 30 marks on each of the three sections. (90 marks)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Paper 4</strong></td>
<td></td>
<td>–</td>
<td>15</td>
</tr>
<tr>
<td>A Level Coursework</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candidates will follow a minimum of two activities from the activity profiles offered. Assessment will take place in an open environment (effective performance). (2 × 30 marks)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candidates will be required to evaluate and appreciate a live performance in one of their chosen activities. (30 marks)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coursework will be internally assessed and externally moderated by Cambridge International.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Weighting for Assessment Objectives

The approximate weightings allocated to each of the assessment objectives at Cambridge International A Level in the assessment model are summarised in the table below.

<table>
<thead>
<tr>
<th>Assessment objective</th>
<th>AS Weighting (%)</th>
<th>A Level (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AO1: knowledge with understanding</td>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>AO2: apply practical skills, knowledge and understanding to physical activity</td>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td>AO3: analyse and evaluate practical performance</td>
<td>5</td>
<td>10</td>
</tr>
</tbody>
</table>

The relationship between the assessment objectives and the scheme of assessment at Cambridge International A Level is set out in the table below.

<table>
<thead>
<tr>
<th>Assessment objective</th>
<th>Component 1</th>
<th>Component 2</th>
<th>Component 3</th>
<th>Component 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>AO1: knowledge with understanding</td>
<td>20</td>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>AO2: apply practical skills, knowledge and understanding to physical activity</td>
<td>15</td>
<td>10</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>AO3: analyse and evaluate practical performance</td>
<td>5</td>
<td></td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>
3 Syllabus content

This syllabus gives you the flexibility to design a course that will interest, challenge and engage your learners. Where appropriate you are responsible for selecting contexts, resources and examples to support your learners’ study. These should be appropriate for the learners’ age, cultural background and learning context as well as complying with your school policies and local legal requirements.

Component 1

### Section A: Applied anatomy and physiology

1 **The skeletal system**
   - general overview of the skeletal system to include the functions of the skeleton, the axial and appendicular skeleton

   *This is meant as an introductory section to the course and will not be directly examined.*

2 **Joint type**
   - definitions and examples of fibrous, cartilaginous and synovial joints
   - the typical structure and features of a synovial joint
   - the type of joint and the bones which articulate at the following joints: shoulder, elbow, radioulnar, wrist, hip, knee, ankle, spine (pivot, cartilaginous and gliding)

3 **Movement type**
   - types of movement which can occur at the above named joints to include: flexion, extension, plantar flexion, dorsiflexion, abduction, adduction, pronation, supination, elevation, depression, rotation, and circumduction

4 **Muscles**
   - location and action of individual muscles (knowledge of origins and insertions is desirable but will not be examined)
   - the following joints and muscles need to be covered:
     - shoulder: deltoid, latissimus dorsi, pectoralis major, rotator cuff muscles (supraspinatus, subscapularis, infraspinatus, teres minor)
     - elbow: biceps brachii, triceps brachii
     - radioulnar: supinator, pronator teres
     - wrist: wrist extensors, wrist flexors
     - spine: rectus abdominis, external obliques/internal obliques, erector spinae, transversus abdominis, multifidus
     - hip: iliopsoas, sartorius, gluteus maximus, gluteus medius, gluteus minimus, gracilis, adductor longus, adductor magnus, adductor brevis
     - knee: biceps femoris, semimembranosus, semitendinosus, rectus femoris, vastus lateralis, vastus medialis, vastus intermedius
     - ankle: tibialis anterior, gastrocnemius, soleus
   - a knowledge that some muscles cause movement at more than one joint
<table>
<thead>
<tr>
<th>Functions of muscles</th>
</tr>
</thead>
<tbody>
<tr>
<td>function of muscles as agonists, antagonists, fixators and synergists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Types of muscle contraction</th>
</tr>
</thead>
<tbody>
<tr>
<td>concentric, eccentric, isometric, isokinetic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Muscle fibre types</th>
</tr>
</thead>
<tbody>
<tr>
<td>structure and function of slow oxidative, fast oxidative glycolytic, and fast glycolytic muscle fibre types</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Movement analysis of sporting actions associated with each joint</th>
</tr>
</thead>
<tbody>
<tr>
<td>practical analysis of typical sporting actions associated with each joint, to include identification of joint, joint type, movement occurring, working muscles, functions of the muscles, type of contraction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Structure and function of the heart</th>
</tr>
</thead>
<tbody>
<tr>
<td>internal and external structure of the heart, to include the heart chambers and valves, all blood vessels attached to the heart, the heart wall, and pericardium</td>
</tr>
<tr>
<td>conduction system of the heart, cardiac cycle</td>
</tr>
<tr>
<td>definitions and relationship between cardiac output, stroke volume, heart rate; differences in values at rest and during exercise</td>
</tr>
<tr>
<td>regulation of heart rate to include neural, hormonal, and intrinsic factors</td>
</tr>
<tr>
<td>measurement of heart rate response to varying intensities of workload</td>
</tr>
<tr>
<td>heart rate response during recovery, with a graphical representation of data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Function of the vascular system</th>
</tr>
</thead>
<tbody>
<tr>
<td>pulmonary and systemic circulatory systems</td>
</tr>
<tr>
<td>factors linked with venous return</td>
</tr>
<tr>
<td>distribution of cardiac output at rest and during exercise, to include the vascular shunt mechanism, the role of the precapillary sphincters and the role of the vasomotor centre</td>
</tr>
<tr>
<td>blood flow, blood velocity, blood pressure and the effects of exercise on blood pressure</td>
</tr>
<tr>
<td>oxygen and carbon dioxide transport</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Structure and function of the respiratory system</th>
</tr>
</thead>
<tbody>
<tr>
<td>structure of the nasal passages, trachea, bronchi, bronchioles, and alveoli</td>
</tr>
<tr>
<td>lobes of the lung and pleural membrane</td>
</tr>
<tr>
<td>mechanics of breathing at rest and during exercise</td>
</tr>
<tr>
<td>respiratory muscles, to include: diaphragm, external intercostals, sternocleidomastoid, pectoralis minor, internal intercostals, and abdominal muscles</td>
</tr>
<tr>
<td>control of ventilation (neural and chemical)</td>
</tr>
<tr>
<td>definitions, values and measurement of respiratory volumes at rest and during exercise</td>
</tr>
<tr>
<td>effect of exercise on respiratory volumes and pulmonary ventilation</td>
</tr>
<tr>
<td>gaseous exchange, partial pressures and tissue respiration</td>
</tr>
<tr>
<td>the effect of altitude on the respiratory system</td>
</tr>
</tbody>
</table>
Component 1

### Section B: Acquiring, developing and performing movement skills

1. **Characteristics of a skilful performance**
   - learned
   - efficient
   - goal directed
   - follows technical model
   - fluent
   - aesthetically pleasing

2. **Definition and characteristics of motor and perceptual skills**
   (a) Classification of skills
   - placement of skills on continua to include (with examples)
     - gross and fine
     - open and closed
     - discrete, serial and continuous
     - external and internally paced
     - simple or complex
     - high and low organisation
   (b) Definition and characteristics of abilities
   - characteristics: innate, underlying and enduring traits
   - gross motor and psychomotor abilities, with examples

3. **Motor skill development**
   - knowledge of the progression from motor abilities to fundamental motor skills, to sport-specific skills
   - awareness of the influences of early experiences and environmental exposure

4. **Theories related to the learning of motor skills**
   - description of the stimulus-response (S/R) bond and application of related theories
   - associationist theories: operant conditioning – shaping behaviour, the use of reinforcement, link to trial and error, linking of the S/R bond
   - cognitive theory: work of the Gestaltists – wholeness and insight learning
   - observational learning: the work of Bandura – the four elements (attention, retention, motor reproduction, motivation)

5. **Reinforcement**
   - definition and examples of positive reinforcement, negative reinforcement and punishment, as methods of strengthening or weakening the S/R bond
   - ways of strengthening the S/R bond through repetition, satisfaction/annoyance, and through physical and mental preparedness
6 Theories related to motor and executive programmes

- definition as a generalised series of movements: creation of programmes in the long-term memory; awareness of the major programmes/sub-routines of a range of motor skills
- open-loop control: retrieval of programmes by making one decision, used in quick movements where there is no time for feedback, with examples
- closed-loop control: detection and correction of movements during the performance through the use of feedback, with examples
- schema theory: a way of modifying the motor programme by the use of schema or rules of information
  - Schmidt’s sources of information as recall and recognition schema
  - four rules of schema (knowledge of initial conditions, knowledge of response specifications, sensory consequences, movement outcomes)
  - examples of the application of the schema theory in teaching and coaching

7 Theory of information processing in the performance of motor skills

(a) Basic models of information processing
- display, sensory information, sense organs, perception, decision making, effector mechanism, response and feedback
- use of practical examples to show evidence of understanding

(b) Memory
- basic model of the memory process: selective attention, short-term sensory store, short-term memory, long-term memory
- use of practical examples to show evidence of understanding of the use of memory in the performance of practical skills

(c) Reaction time
- definitions of reaction time, movement time and response time
- importance of a short reaction time
- factors affecting reaction time, including psychological refractory period, in a range of sporting activities

(d) Feedback
- importance and functions of feedback
- types of feedback to include: intrinsic and extrinsic, terminal and concurrent, positive and negative, knowledge of performance, knowledge of results
- use of practical examples to show how feedback can be used effectively to improve performance

(e) Phases of learning movement skills
- cognitive, associative, autonomous phases of learning
- characteristics of each phase and their practical implications
(f) Transfer of learning
   - definition of transfer of learning
   - types, including (with practical examples):
     - positive transfer, its practical application and ways of optimising its effect
     - negative transfer, its practical application and ways of limiting its effect
     - proactive and retroactive
     - bilateral transfer

(g) Motivation
   - definition of motivation to include extrinsic and intrinsic motivation
   - practical examples to show the advantages and disadvantages of both methods
   - effect of extrinsic rewards on intrinsic motivation

(h) Theories related to arousal levels
   - drive theory
   - inverted-U theory
   - drive-reduction theory
Component 1

Section C: Contemporary studies in physical education and sport

1 The conceptual basis of physical education and sport

(a) Defining the field of study
• physical performance as it falls within such activity categories as play, physical recreation, sport and physical education
• recognition of the broader concepts of leisure and recreation, and the sub categories of outdoor recreation and outdoor education; identification and explanation of shared characteristics
(b) Leisure and recreation
• identifying leisure activities and associated characteristics
• leisure as an activity and experience:
  – in a cultural setting
  – as an economic product
  – as a form of social control
  – as a basis for self-realisation
• recreation as a positive aspect of leisure: active leisure, associations with privilege and purposefulness
(c) Physical and outdoor recreation
• definition and characteristics of physical recreation in a leisure and cultural framework
• definition and characteristics of outdoor recreation:
  – appreciation of the natural environment
  – adventure and risk to the individual
  – respect for the countryside
(d) Towards a concept of play
• definition and characteristics of play:
  – freedom and time
  – space and spontaneity
  – enjoyment
  – intrinsic value
  – non-serious and non-productive assumptions
• child at play: increasing mastery over reality
• adult at play: escape from reality, stress release
(e) Towards a concept of sport
• definitions and characteristics of sport
• values such as sportsmanship and fair play; win and participation ethics
• sport in society: the functional/desirable to dysfunctional/undesirable components
• concepts of sport for all and excellence in sport
• equal opportunity, provision and esteem
• elitism
(f) Physical education and outdoor education
   • definitions and characteristics of physical education in schools
   • values:
     – health and skill learning
     – preparation for active leisure and as a career
     – self-realisation
     – socialisation
   • definitions and characteristics of outdoor education as part of physical education
   • safety in natural situations: subjective and objective danger; real and perceived risk

(g) Relationships between play, physical recreation, sport and physical education
   • differences in emphasis of characteristics in different activities

2 Achieving excellence in sport (relating to a country of your choice)
   • policies, government initiatives
   • status of elite sport, professional approach
   • political views
   • importance of Olympic success
   • provision for excellence, facilities, coaches, science support
   • funding for excellence
   • administration, structure and organisation of sport

3 Mass participation in sport (relating to a country of your choice)
   • benefits of regular participation in sport
   • widening the base of the performance pyramid
   • initiatives to encourage mass participation
   • provision of facilities, for mass participation by private, public, or voluntary bodies
   • funding for mass participation
   • provision at grass-roots level by National Governing Bodies and other agencies
   • attitudes to participation

4 Factors affecting participation in sport
   • socio-economic status
   • parents, siblings, peer group
   • age
   • gender
   • ability/disability
   • race
   • religion
   • government/status of country
5 Sporting issues

• sport and commercialism
• links between sport and politics
• sponsorship/advantages and disadvantages to the performer and sponsor
• role of the media
• ethics in sport/fair play, sportsmanship and gamesmanship
• violence by players and spectators; solutions to the problem
• drugs in sport
Component 3

### Section A: Exercise and sport physiology

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<table>
<thead>
<tr>
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<tr>
<td><strong>1 Energy concepts</strong></td>
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<tr>
<td>• definitions of energy, work and power, and the units they are expressed in</td>
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<tr>
<td>• forms of energy to include chemical, kinetic and potential</td>
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<td><strong>2 ATP</strong></td>
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<td>• the role of ATP</td>
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<td>• the breakdown and resynthesis of ATP</td>
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<td>• the principle of coupled reactions; exothermic and endothermic reactions</td>
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<td><strong>3 ATP resynthesis</strong></td>
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<td>• knowledge of the three energy systems:</td>
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<tr>
<td>– ATP/PC (alactic)</td>
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<td>– the lactic acid system</td>
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<td>– the aerobic system</td>
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<td>• Detail required to include the type of reaction (aerobic or anaerobic), the chemical or food fuel used, the specific site of the reaction, the controlling enzyme, energy yield, specific stages within a system, and the by-products produced</td>
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<td><strong>4 Energy continuum</strong></td>
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<td>• the predominant energy system used related to:</td>
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<tr>
<td>– the type of exercise (duration and intensity)</td>
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<td>– the interchanging between thresholds during an activity (for example, the onset of blood lactate accumulation/OBLA)</td>
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<td>• the effect of the level of fitness, availability of oxygen and food fuels, and enzyme control on the energy system used</td>
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<td><strong>5 The recovery process</strong></td>
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<tr>
<td>• returning the body to its pre-exercise state</td>
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<td>• the oxygen debt / excess post exercise oxygen consumption (EPOC)</td>
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<tr>
<td>• the alactacid and lactacid debt components, including the processes that occur and the duration of each component</td>
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<td>• replenishment of myoglobin stores and fuel stores, and the removal of carbon dioxide</td>
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<td>• implications of recovery process to be considered when planning training sessions, for example training intensities, work/relief ratios</td>
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<tr>
<td><strong>6 Principles of training</strong></td>
<td></td>
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<tr>
<td>• specificity, progression, overload (FIT), reversibility, moderation, and variance</td>
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<tr>
<td>• the physiological implications of a warm up and cool down (for example, reduce the delayed onset of muscular soreness – DOMS)</td>
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<td>• periodisation of training to include the macrocycle, mesocycle and microcycle</td>
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<td>• awareness of the implications of the principles when applied to the candidate’s own training</td>
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</table>
7 Components of fitness

(a) Aerobic capacity
- definition of aerobic capacity
- awareness of how an athlete’s VO₂ max is affected by individual physiological make up, training, age and sex
- methods of evaluating aerobic capacity (for example, multi-stage fitness test, PWC170 test)
- assessment of the candidate’s own VO₂ max, matching their result against the aerobic demand of their chosen activity
- types of training used to develop aerobic capacity (continuous running, repetition running, fartlek and interval training)
- use of target heart rates as an intensity guide
- energy system and food/chemical fuels used during aerobic work
- physiological adaptations that take place after aerobic training

(b) Strength
- definition of types of strength to include:
  - strength endurance
  - maximum strength
  - explosive/elastic strength
  - static and dynamic strength
- factors affecting strength, for example fibre type and cross-sectional area of the muscle
- methods of evaluating strength, for example grip strength dynamometer
- types of training used to develop strength
- the repetition, sets and resistance guidelines used to improve each type of strength
- use of multi-gym, weights, plyometrics and circuit/interval training (work intensity, work duration, relief interval, number of work/relief intervals)
- energy system and food/chemical fuels used during each type of strength training
- physiological adaptations that take place after training, including neural and physiological changes to skeletal muscle

(c) Flexibility
- definition of flexibility to include static and dynamic flexibility
- factors affecting flexibility, for example, type of joint, length of surrounding connective tissue
- methods of evaluating flexibility, for example sit and reach test, or goniometer
- types of training used to develop flexibility, including
  - static (active and passive)
  - ballistic
  - proprioceptive neuromuscular facilitation (PNF)
  - dynamic stretching
- physiological adaptations that take place after training, to include physiological changes to skeletal muscle and connective tissue
(d) Body composition
- definition, method of evaluation
- global rise in BMI leading to health problems
- percentage of muscle mass and bone density found in highly trained athletes
- methods of improvement
(e) Balance
- definition
- methods of evaluation
- static and dynamic dimensions of balance
- methods of improvement
(f) Co-ordination
- definition
- methods of evaluation
- methods of improvement
(g) Agility
- definition
- methods of evaluation
- methods of improvement
(h) Reaction time
- definition
- methods of evaluation
- relationship to muscle fibre types
- methods of improvement
(i) Speed
- definition
- methods of evaluation
- methods of improvement

8 Ergogenic aids
- an awareness of current methods of performance enhancement
- the effects of each aid
- which athletes would benefit from each aid
- nutritional aids:
  - carbohydrate loading
  - pre/post competition meals
  - food/fluid intake during exercise
- use of creatine supplements
- blood doping and recombinant erythropoietin (Rh EPO)
- effects of caffeine
- effects of alcohol
- anabolic steroids (e.g. Nandrolone)
- human growth hormone (HGH)
Component 3

Section B: Psychology of sport performance

1 Individual aspects of sport performance
   (a) Personality
   • theories of personality including:
     – trait perspectives (including the characteristics of extroversion/introversion, neuroticism/stability, Type A/Type B)
     – social learning perspectives
     – interactionist approaches
   • justification of the limitations of personality profiling in sport
   (b) Attitudes
   • the nature of attitudes, inconsistencies and prejudice in sporting situations
   • understanding of their origins and influences (including the effects of socialisation)
   • identification of the components of attitudes (cognitive, affective, behavioural)
   • identification of the links between attitudes and behaviour in sporting situations
   • awareness of methods of changing attitudes from negative to positive, including knowledge of:
     – cognitive dissonance
     – persuasive communication
   (c) Motivation
   • Atkinson and McClelland’s theory of achievement motivation (the need to achieve and the need to avoid failure)
   • awareness of sport-specific achievement motivation (i.e. competitiveness)

2 Group dynamics of sport performance
   (a) Groups and teams
   • definition of a group/team (mutual awareness, interaction, common goal)
   • knowledge of Steiner’s model of group performance
   • awareness of problems associated with productivity of a group/team, including:
     – motivational factors (social loafing)
     – co-ordination/co-operation factors (Ringelmann effect)
   • knowledge of factors affecting the formation and development of a cohesive group/team
(b) Leadership
• understanding the importance of effective leadership
• characteristics of leaders, including:
  – autocratic/task-oriented
  – democratic/social oriented
  – laissez-faire
• emergent and prescribed leaders
• theories of leadership, including:
  – trait theories
  – social learning theories
  – interactionist theories
• Fiedler’s contingency model
• Chelladurai’s multi-dimensional model of leadership

3 Mental preparation for sport performance
(a) Commitment
• goal setting
• understand the importance and relevance to sport (related to anxiety management)
• factors affecting the setting of goals (“SMARTER” principle)
• the candidate should set sporting goal(s) and justify the use of short/intermediate/long term goals and process/performance/product goals to improve performance
(b) Self-confidence
• sports confidence (Vealey)
• the concepts of trait sports confidence, competitiveness orientation, state sports confidence
• self-efficacy (Bandura) and the influence of:
  – performance accomplishments
  – vicarious experiences
  – verbal persuasion
  – emotional arousal
(c) Concentration
• attentional control
• cue utilisation (Easterbrook) and its links with arousal
• attentional styles, e.g. broad/narrow, internal/external (Nideffer)
(d) Emotional control

- definition of activation and arousal
- awareness of their relationship to personality, ability level, and complexity of the task
- peak flow experience and the zone of optimum functioning theory (Hanin)
- definition of anxiety
- the nature and influences of anxiety, including:
  - the trait/state distinction (Spielberger)
  - multi-dimensional theory (cognitive anxiety and somatic anxiety)
  - sports competition anxiety
- anxiety management to improve performance including:
  - cognitive techniques (mental rehearsal/imagery, positive self-talk, thought stopping, rational/positive thinking)
  - somatic techniques (progressive muscular relaxation, biofeedback relaxation)

4 Competition effects on sport performance

(a) Social facilitation and audience effects

- knowledge of the positive (facilitation) and negative (inhibition) effects of others (including an audience and co-actors) on performance
- awareness of the links with levels of arousal, and the heightening of the dominant response (Zajonc)
- the causes and effects of evaluation apprehension (Cottrell)
- awareness of the distraction effect
- awareness of the Homefield Advantage Phenomenon
- the use of strategies to combat the effects of social inhibition, particularly the use of selective attention and mental rehearsal

(b) Aggression

- the difficulties associated with the definition of aggression as opposed to assertion
- definition of channelled aggression
- causes of aggressive behaviour
- theories of aggression (in sporting situations) including:
  - instinct theories
  - frustration-aggression hypothesis
  - aggressive-cue hypothesis (Berkowitz)
  - social learning theories
- methods of eliminating aggressive tendencies of performers

5 Consequences of sport performance

Attribution theory

- reasons for success and failure
- Weiner’s model
- the use of attributional retraining
- strategies for the promotion of mastery orientation and the avoidance of learned helplessness
### Component 3

#### Section C: Olympic Games: a global perspective

<table>
<thead>
<tr>
<th>1</th>
<th>As a social force</th>
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<tbody>
<tr>
<td>•</td>
<td>the concept of an international athletic festival to act as a social force</td>
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<tr>
<td>•</td>
<td>athletes from all over the world meeting and competing irrespective of colour, race, creed, and political belief</td>
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<td>•</td>
<td>the promotion of international understanding, and an appreciation of cultural diversity</td>
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<td>•</td>
<td>concept of a supreme mental and physical challenge</td>
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<td>•</td>
<td>fair play ideals</td>
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<td>•</td>
<td>ideals of peace, harmony, and co-operation to transcend political barriers</td>
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<th>2</th>
<th>Ancient Olympic Games</th>
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<td>•</td>
<td>as a blueprint for the modern era</td>
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<td>•</td>
<td>sporting events as a common feature of life in ancient Greece</td>
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<td>•</td>
<td>use of Olympia as a site</td>
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<td>•</td>
<td>held every four years from 776BC for 1000 years, abolished in 393AD</td>
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<td>•</td>
<td>format of ancient games, for example, five day period, religious ceremony, types of athletics events, (the stade, the establishment of the pentathlon)</td>
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<td>•</td>
<td>‘wreath or death’ mentality</td>
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<td>•</td>
<td>the place of women in these games</td>
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<th>3</th>
<th>Role of the IOC</th>
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<td>•</td>
<td>mission and role of the IOC in leadership of the Olympic Movement</td>
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<td>•</td>
<td>organisation, membership and administration of the IOC</td>
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<td>•</td>
<td>bidding to host the games, for example: controversy caused on methods of selection, criticism of selected host countries (Beijing 2008, human rights in People’s Republic of China)</td>
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<th>4</th>
<th>Politics</th>
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<td>•</td>
<td>the concept of open, international competition being corrupted in full view of the global community</td>
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<td>•</td>
<td>the distortion of Olympic competition into political power</td>
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<td>•</td>
<td>the deterioration of the Olympic Games being used as a competition between nations to enhance national prestige and political ideologies</td>
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<td>•</td>
<td>Olympic Games as a preferred platform for political confrontation</td>
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<td>•</td>
<td>athletes as pawns for their governments</td>
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<td>•</td>
<td>athletes as targets for terrorists</td>
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<td>•</td>
<td>cost of security precautions to deter terrorists</td>
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<td>•</td>
<td>political power determining who can compete</td>
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<td>•</td>
<td>nationalism as a symbol of the Olympic Games, not peace and co-operation</td>
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<td>•</td>
<td>examples, such as Hitler’s 1936 Olympiad in Berlin – the master race ethic</td>
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<td>•</td>
<td>the contribution of Jesse Owens</td>
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<td>•</td>
<td>examples, such as political statements made by athletes in Mexico 1968</td>
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</table>
• examples such as apartheid and terrorism in Munich 1972
• examples such as power politics as seen in the form of boycotts; Montreal 1976, Moscow 1980, Los Angeles 1984
• accelerated rebuilding of Beijing, movement of people from urban areas into cities; globalisation causing industrialisation of their economy; use of foreign exchange reserves for funding
• positive legacy of the games – impact on regeneration in host countries

5 Comparison of methods of nurturing talent in the pursuit of global excellence
• a comparison of the pursuit of excellence, therefore gold medals, in countries such as the United States of America and the People’s Republic of China
• a comparison of:
  – elitist and personal achievement ethics
  – win at all costs ethic
  – status and funding of high-level sport
  – policies and methods used to achieve gold medals
  – professionalism and behaviour

6 Economics and commercialism
• costs of hosting the games
• provision of facilities, transport systems, housing
• use of cheap labour
• costs of hosting an even more expensive event than the previous one
• demands of IOC
• the spiral of extravagance
• sources of funding, e.g. sponsorship, donations from private corporations, government subsidies, sale of television rights
• costs to local people, e.g. Beijing relocation of 300,000 people
• cost of competing to the athlete, for example:
  – training, living expenses, travel
  – loss of income
• sponsorship, grants, bursaries
• benefits to competing athletes, for example:
  – high income
  – public appearances
  – media spotlight
• financial benefits of hosting the games:
  – revenue from operating facilities as training sites
  – profitability to television networks
• attraction of mass audiences
<table>
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<tr>
<th>7 Amateurism</th>
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<tbody>
<tr>
<td>• traditional definition of amateurism in the Olympic Games</td>
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<td>• definition as a tool for excluding the working class in sports events organised for the upper class</td>
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<td>• definition as a noble concept</td>
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<td>• transition to professionalism</td>
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<td>• ‘broken time’ payment</td>
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<td>• lack of policy from the IOC</td>
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<td>• abuse of the amateur ideal</td>
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<td>• necessity for full time pursuit to achieve Olympic success</td>
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<th>8 Dysfunctional aspects</th>
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<tr>
<td>• Olympic Oath 2000</td>
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<td>• win at all costs ethic</td>
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<td>• rumours of widespread use of drugs</td>
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<td>• risk-taking, and ‘paying the price’</td>
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<td>• testing as a deterrent</td>
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<td>• example: ‘Big Drug Bust’, Seoul 1988</td>
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<td>• examples: Sydney Olympics 2000 and Salt Lake City Winter Olympics 2002</td>
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<th>9 Discrimination</th>
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<tr>
<td>• the changing role of women throughout the Olympic Games</td>
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<td>• expansion of events which now cater for all races</td>
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<td>• introduction and importance of the Paralympics</td>
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<tr>
<td>- the staging of the first Paralympics</td>
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<tr>
<td>- why and how this movement gained impetus</td>
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<td>- the relevance of the Second World War</td>
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<td>- Sir Ludwig Guttmann</td>
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<td>- the significance of Seoul</td>
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<th>10 Spectacular aspect</th>
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<td>• expanding horizon</td>
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<td>• pushing the achievements of the body in sport to the limits of endurance</td>
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<td>• intensity of competition</td>
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<td>• spiritual aspect: bravery of competition</td>
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11 The Future

NB These are notes for teachers, to give guidance on areas for discussion leading to some reformatory style questioning in the examination.

- Should the Olympic Games be reformed?
- athletes’ experiences, rather than outcomes, becoming the major emphasis
- medal counts and national prestige are major concerns for reform
- revision of opening ceremonies and medal ceremonies to reflect achievements of athletes
- place of national uniforms, flags, anthems and medal counts
- dropping of ‘wealth sports’
- revision of team sports
- revision of the Olympic Motto (Citius, Altius, Fortius) to emphasise participation and the commitment to fair play
- use of multiple sites rather than one host nation
- the removal of politics from the Olympic Arena
- solutions/recommendations related to performance enhancement
4 Coursework

The assessment criteria for all the practical activities at both AS and A Level can be found in the Cambridge International AS and A Level Physical Education Coursework Guidelines Booklets which centres must have access to.

The Coursework Guidelines Booklets also contain information and the assessment criteria to assess:

• the written Action Plan for the AS Coursework component (part of Component 2)
• the Evaluation and Appreciation of Performance for the A Level Coursework component (part of Component 4).

The assessment, including the production of video evidence of candidates performing in practical activities, is an integral part of the Cambridge International AS & A Level Physical Education course. In addition, candidates can be placed in physically demanding situations when taking part in practical activities.

It is the responsibility of the centre, through the Head of Physical Education or equivalent, to ensure that:

• candidates are capable of taking part in practical activities. If there is any doubt then medical advice should be sought.
• the health and safety of candidates is paramount and is maintained at all times when candidates are engaged in practical activities as part of this course
• the necessary facilities and equipment are available and safe for each activity that candidates take part in
• they oversee the assessment process and that there is effective internal standardisation across the centre’s assessments and all the staff involved in the assessments, including off-site activities
• the DVD video evidence is sufficiently comprehensive and in the correct format (single layered DVD, viewable in Windows Media player or QuickTime) to enable external moderation to take place efficiently.

Centres should always follow best practice in conducting practical activities. One textbook that centres may find helpful is Safe Practice in Physical Education and School Sport (2008), ISBN 978-1905540549, produced by the Association for Physical Education.

Pupils with disabilities

You should not prevent any candidate from participating in the physical activities on the grounds of disability. Within the range of physical activities offered, candidates with disabilities will be capable of achievement in the assessment objectives with or without adaptation in their chosen activities.

Where a candidate with a disability chooses an activity which needs adaptation to meet their needs, you must take steps to ensure that they are not penalised. In such instances, and before beginning to teach the course, you must inform Cambridge International, indicating the nature of the candidate’s disability and suggesting ways in which the activity might be adapted. Cambridge International and the Principal Moderator will then consider the situation. See ‘Access arrangements’ in the Cambridge Handbook.

Recording and submitting candidates’ marks and work

Please refer to the samples database at www.cambridgeinternational.org/samples for information, dates and methods of submission of candidates’ marks and work.

You should record candidates’ marks for AS Component 2 and A Level Component 4 on the Rank Order Forms and the Coursework Summary Assessment Form.

The marks on these forms must be identical to the marks you submit to Cambridge International.
Authenticity and avoidance of plagiarism

It is the centre’s responsibility to make sure all assessed work is the candidate’s original work. If plans and first drafts are completed under teacher supervision, you can be sure of the authenticity of the final coursework. You should not correct or edit draft coursework. A general discussion on the progress of coursework is a natural part of the teacher–candidate relationship, as it is for other parts of the course.

Candidates must understand that they cannot submit someone else’s work as their own, or use material produced by someone else without citing and referencing it properly. You should make candidates aware of the academic conventions governing quotation and reference to the work of others, and teach candidates how to use them.

A candidate taking someone else’s work or ideas and passing them off as his or her own is an example of plagiarism. It is your responsibility as a teacher to prevent plagiarism from happening and to detect it if it does happen. For more information, search for ‘Preventing plagiarism – guidance for teachers’ on our website at www.cambridgeinternational.org

Guidance on using levels-based mark schemes

Marking of work should be positive, rewarding achievement where possible, but clearly differentiating across the whole range of marks, where appropriate.

The marker should look at the work and then make a judgement about which level statement is the best fit. In practice, work does not always match one level statement precisely so a judgement may need to be made between two or more level statements.

Once a best-fit level statement has been identified, use the following guidance to decide on a specific mark:

- If the candidate’s work convincingly meets the level statement, award the highest mark
- If the candidate’s work adequately meets the level statement, award the most appropriate mark in the middle of the range (where middle marks are available)
- If the candidate’s work just meets the level statement, award the lowest mark.

Advanced Subsidiary (AS) – Component 2

Candidates are assessed on:

- their performance and its improvement in two chosen activities, from two different activity categories listed below (20 per cent of total marks). The assessments will take place in conditioned competitive situations/prescribed situations. The conditioned competitive situations should generate tasks of appropriate pitch and challenge. The Coursework Guidelines Booklet provides some examples, but centres can devise their own.
- their ability to produce an action plan in one of their chosen activities (10 per cent of total marks).

Advanced Level (A Level) – Component 4

Candidates are assessed on:

- their effective performance in two chosen activities, from two different activity categories listed below (20 per cent of total marks). Assessment will take place in an open environment.
- their ability to evaluate and appreciate a live performance through observation and synopsis of knowledge in one of their chosen activities (10 per cent of total marks).
Activity categories

The list below shows the activities available for assessment for AS Coursework (Component 2) and A Level Coursework (Component 4).

Centres should arrange practical activities to suit the particular abilities and interests of candidates, their own facilities, staff expertise and time available.

<table>
<thead>
<tr>
<th>Activity categories</th>
<th>Sports included</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Athletic activities</td>
<td>Cross country running (Cc), Track and field athletics (Ath), Track cycling (Tc), Triathlon (Tri)</td>
</tr>
<tr>
<td>2 Fitness activities</td>
<td>Weight training, Component 2 (Wt), Olympic weight lifting, Component 4 (OWL)</td>
</tr>
<tr>
<td>3 Combat activities</td>
<td>Judo (Ju), Karate (non-contact) (Ka)</td>
</tr>
<tr>
<td>4 Dance</td>
<td>Various styles (Da)</td>
</tr>
<tr>
<td>5 Invasion games</td>
<td>Association Football (AF), Basketball (Bas), Field hockey (Ho), Goalball (Goa), Handball (Ha), In-line hockey (ILH), Lacrosse (La), Netball (Ne), Rugby League (RL), Rugby Union (RU), Water polo (Wp)</td>
</tr>
<tr>
<td>6 Net/wall games</td>
<td>Badminton (Bad), Squash (Sq), Table Tennis (TT), Tennis (Te), Volleyball (Vo)</td>
</tr>
<tr>
<td>7 Striking/fielding games</td>
<td>Baseball (Bb), Cricket (Cri), Rounders (Ro), Softball (So)</td>
</tr>
<tr>
<td>8 Target activities</td>
<td>Archery (Ar), Flat green bowling (Bo), Golf (Go)</td>
</tr>
<tr>
<td>9 Gymnastic activities</td>
<td>Gymnastics (AG), Individual ice (figure) skating (FS), Rhythmic gymnastics (RG), Trampolining (Tr)</td>
</tr>
<tr>
<td>10 Outdoor and adventurous activities</td>
<td>Canoeing (Ca), Horse riding (dressage/cross-country/show jumping/three-day eventing) (HRI), Mountain biking (MB), Mountain/hill walking with campcraft or hostelling (Hwl), Orienteering (Or), Rock climbing (Rc), Rowing and sculling (Row), Sailing (Sa), Skiing (Sk), Snowboarding (Sb), Windsurfing (Ws)</td>
</tr>
<tr>
<td>11 Swimming</td>
<td>Competitive swimming (Sw), Life saving (LS), Personal survival (PS)</td>
</tr>
</tbody>
</table>

Performance and its improvement (AS Component 2)

The candidate should be aware of the correct techniques, methods and rules appropriate to his/her two chosen activities. He/she should be able to identify his/her strengths, and areas for improvement and carry out a 10-week action plan for improvement in one of his/her chosen activities. This action plan should be recorded and not exceed 20 sides of A4.

Effective performance (A Level Component 4)

Candidates should be able to select, apply and perform skills in his/her two chosen activities. This effective performance will be assessed against criteria identified for each activity. The candidate’s oral response to the observation of a live performance in one of their chosen activities is assessed.
Moderation

- Final marks for each activity and for the action plan (Cambridge International AS Level, Component 2) should be entered on separate assessment sheets. The candidate’s names should be entered on these sheets in rank order.
- Marks and codes for both the assessed practical activities and action plan (AS Level, Component 2) and for the evaluation and appreciation of performance (A Level, Component 4) should then be entered onto the Coursework Summary Assessment form. Candidates’ names should be entered in candidate number order.
- Final marks are submitted at the end of the Cambridge International AS Level course to represent candidates’ performance and its improvement in two activities, and their action plan in one of these activities in Component 2.
- Final marks are submitted at the end of the A Level course to represent candidates’ effective performance in two activities, and evidence of their evaluation and appreciation of performance in one of their chosen activities in Component 4.

After internal moderation, the following must be submitted to Cambridge International for external moderation:

- Coursework mark sheets
- video/DVD recorded evidence of candidates’ performance in practical activities
- evidence of the candidates’ action plan (AS Level only, Component 2)
- video/DVD evidence of the evaluation and appreciation of performance (A Level only, Component 4).

Internal moderation
If more than one teacher in your centre is marking internal assessments, you must make arrangements to moderate or standardise your teachers’ marking so that all candidates are assessed to a common standard. (If only one teacher is marking internal assessments, no internal moderation is necessary). You can find further information on the process of internal moderation at www.cambridgeinternational.org

You should record the internally moderated marks for all candidates on the Coursework Summary Assessment Form and Rank Order Forms and submit these marks to Cambridge International according to the instructions set out in the Cambridge Handbook for the relevant year of assessment.

External moderation
Cambridge International will externally moderate all internally assessed components.

- You must submit the marks of all candidates to Cambridge International.
- You must also submit the marked work of a sample of candidates to Cambridge International.

The sample you submit to Cambridge International should ideally include examples of the marking of each teacher. The samples database at www.cambridgeinternational.org/samples explains how the sample will be selected.

The samples database at www.cambridgeinternational.org/samples also provides details of how to submit the marks and work.

External moderators will produce a short report for each centre with feedback on your marking and administration of the assessment.
Guidance on the requirements for video evidence of Coursework

It is not permissible to submit the same video evidence for AS Component 2 Coursework assessment and for A Level Component 4 Coursework assessment because the assessments are carried out in different contexts. Component 2 assessment is within conditioned competitive situations whereas in Component 4 it is within an open environment.

Video evidence should be submitted on a single layered DVD, viewable on Windows Media player or QuickTime, in the UK.

The video for indoor activities should be shot in good light.

All candidates should be identified by large numbered bibs or card numbers, pinned on their back and front.

The use of white-on-yellow bibs should be avoided as the numbers are difficult to read on a television screen.

The number worn by the candidate on the video recording should be entered alongside the candidate number on the Practical Activity Assessment Form.

A running commentary, constantly identifying candidates, is very helpful to the Moderator. Captions are also helpful, but not essential.

Accompanying notes are useful, especially those giving the running order of the video. An accurate description of how well candidates are performing should be given, because the marks of unseen candidates will be affected. If a candidate is off form, the reasons should be stated.

The following documentation should be sent with the DVD:

AS Component 2
- MS1 or equivalent
- AS Coursework Summary Assessment Form
- Individual activity assessment forms for each activity
- Written action plans for improvement for the sample of candidates

A Level Component 4
- MS1 or equivalent
- A Level Coursework Summary Assessment Form
- Individual activity assessment forms for each activity
- Video evidence of the evaluation and appreciation of performance for the sample of candidates.

Please refer to the samples database at www.cambridgeinternational.org/samples for information, dates and methods of submission of candidates’ marks and work. It would be appreciated if the video evidence and coursework documentation could be submitted in advance of the deadline.

There should be no need to submit more than one 3-hour DVD.
## 5 Activity categories and codes

<table>
<thead>
<tr>
<th>Activity category</th>
<th>Activity</th>
<th>Activity codes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Athletic activities</strong></td>
<td>Cross country running</td>
<td>Cc</td>
</tr>
<tr>
<td></td>
<td>Track and field athletics</td>
<td>Ath</td>
</tr>
<tr>
<td></td>
<td>Track cycling</td>
<td>Tc</td>
</tr>
<tr>
<td></td>
<td>Triathlon</td>
<td>Tri</td>
</tr>
<tr>
<td><strong>Fitness activities</strong></td>
<td>Weight training (Component 2)</td>
<td>Wt</td>
</tr>
<tr>
<td></td>
<td>Olympic weight lifting (Component 4)</td>
<td>OWL</td>
</tr>
<tr>
<td><strong>Combat activities</strong></td>
<td>Judo</td>
<td>Ju</td>
</tr>
<tr>
<td></td>
<td>Karate (non-contact)</td>
<td>Ka</td>
</tr>
<tr>
<td><strong>Dance</strong></td>
<td>Various styles</td>
<td>Da</td>
</tr>
<tr>
<td><strong>Invasion games</strong></td>
<td>Association Football</td>
<td>AF</td>
</tr>
<tr>
<td></td>
<td>Basketball</td>
<td>Bas</td>
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<td></td>
<td>Field hockey</td>
<td>Ho</td>
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<tr>
<td></td>
<td>Goalball</td>
<td>Ga</td>
</tr>
<tr>
<td></td>
<td>Handball</td>
<td>Ha</td>
</tr>
<tr>
<td></td>
<td>In-line hockey</td>
<td>ILH</td>
</tr>
<tr>
<td></td>
<td>Lacrosse</td>
<td>La</td>
</tr>
<tr>
<td></td>
<td>Netball</td>
<td>Ne</td>
</tr>
<tr>
<td></td>
<td>Rugby League</td>
<td>RL</td>
</tr>
<tr>
<td></td>
<td>Rugby Union</td>
<td>RU</td>
</tr>
<tr>
<td></td>
<td>Water polo</td>
<td>Wp</td>
</tr>
<tr>
<td><strong>Net/wall games</strong></td>
<td>Badminton</td>
<td>Bad</td>
</tr>
<tr>
<td></td>
<td>Squash</td>
<td>Sq</td>
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<tr>
<td></td>
<td>Table tennis</td>
<td>TT</td>
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<tr>
<td></td>
<td>Tennis</td>
<td>Te</td>
</tr>
<tr>
<td></td>
<td>Volleyball</td>
<td>Vo</td>
</tr>
<tr>
<td>Activity category</td>
<td>Activity</td>
<td>Activity codes</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>---------------------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td><strong>Striking/fielding games</strong></td>
<td>Baseball</td>
<td>Bb</td>
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<td></td>
<td>Cricket</td>
<td>Cri</td>
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<td></td>
<td>Rounders</td>
<td>Ro</td>
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<td></td>
<td>Softball</td>
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<td></td>
<td>Rhythmic gymnastics</td>
<td>RG</td>
</tr>
<tr>
<td></td>
<td>Trampolining</td>
<td>Tr</td>
</tr>
<tr>
<td><strong>Outdoor and adventurous activities</strong></td>
<td>Canoeing</td>
<td>Ca</td>
</tr>
<tr>
<td></td>
<td>Horse riding (dressage/cross-country/show jumping/three-day eventing)</td>
<td>HR</td>
</tr>
<tr>
<td></td>
<td>Mountain biking</td>
<td>MB</td>
</tr>
<tr>
<td></td>
<td>Mountain/hill walking with campcraft or hostelling</td>
<td>Hw</td>
</tr>
<tr>
<td></td>
<td>Orienteering</td>
<td>Or</td>
</tr>
<tr>
<td></td>
<td>Rock climbing</td>
<td>Rc</td>
</tr>
<tr>
<td></td>
<td>Rowing and sculling</td>
<td>Row</td>
</tr>
<tr>
<td></td>
<td>Sailing</td>
<td>Sa</td>
</tr>
<tr>
<td></td>
<td>Skiing</td>
<td>Sk</td>
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<tr>
<td></td>
<td>Snowboarding</td>
<td>Sb</td>
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<td>Windsurfing</td>
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<tr>
<td><strong>Swimming</strong></td>
<td>Competitive swimming</td>
<td>Sw</td>
</tr>
<tr>
<td></td>
<td>Life saving</td>
<td>LS</td>
</tr>
<tr>
<td></td>
<td>Personal survival</td>
<td>PS</td>
</tr>
</tbody>
</table>
6 Assessment forms

All coursework assessment forms can be found in the AS & A Level PE Coursework Guidelines Booklets which can be found on Cambridge International’s website. Some practical activities have specific assessment forms, e.g. Weight Training (Component 2), which must be completed for candidates assessed in this activity. Other activities will require the completion of a generic assessment form, e.g. games activities. Details of activities requiring activity specific assessment forms and all the assessment forms can be found in the Coursework Guidelines Booklets.
7 Other information

Equality and inclusion

We have taken great care in the preparation of this syllabus and assessment materials to avoid bias of any kind. In our effort to comply with the UK Equality Act (2010), we have taken all reasonable steps to avoid direct and indirect discrimination.

The standard assessment arrangements may present barriers for candidates with impairments. Where a candidate is eligible, we may be able to make arrangements to enable that candidate to access assessments and receive recognition of their attainment. We do not agree access arrangements if they give candidates an unfair advantage over others or if they compromise the standards being assessed. Candidates who are unable to access the assessment of any component may be eligible to receive an award based on the parts of the assessment they have taken.

Information on access arrangements is in the Cambridge Handbook at www.cambridgeinternational.org/eoguide

Language

This syllabus and the associated assessment materials are available in English only.

Making entries

Exams officers are responsible for submitting entries to Cambridge International. We encourage them to work closely with you to make sure they enter the right number of candidates for the right combination of syllabus components. Entry option codes and instructions for submitting entries are in the Cambridge Guide to Making Entries. Your exams officer has a copy of this guide.

Exam administration

To keep our exams secure, we produce question papers for different areas of the world, known as administrative zones. We allocate all Cambridge schools to one administrative zone determined by their location. Each zone has a specific timetable. Some of our syllabuses offer candidates different assessment options. An entry option code is used to identify the components the candidate will take relevant to the administrative zone and the available assessment options.
Retakes

Candidates can retake Cambridge International AS Level and Cambridge International A Level as many times as they want to. Information on retake entries is in the Cambridge Handbook at www.cambridgeinternational.org/eoguide. To confirm what entry options are available for this syllabus, refer to the Cambridge Guide to Making Entries for the relevant series.

Where the components of the Cambridge International AS Level assessment have all been taken in one series, candidates can carry forward the result of their Cambridge International AS Level assessment from one series to complete the Cambridge International A Level in a following series, subject to the rules and time limits described in the Cambridge Handbook.

Candidates cannot resubmit, in whole or in part, coursework from a previous series. For information, please see the Cambridge Handbook for the relevant year of assessment at www.cambridgeinternational.org/eoguide.

Regulations for carrying forward internally assessed marks can be found in the Cambridge Handbook for the relevant year of assessment at www.cambridgeinternational.org/eoguide.

Grading and reporting

Cambridge International A Level results are shown by one of the grades A*, A, B, C, D or E, indicating the standard achieved, A* being the highest and E the lowest. ‘Ungraded’ indicates that the candidate’s performance fell short of the standard required for grade E. ‘Ungraded’ will be reported on the statement of results but not on the certificate. The letters Q (pending) and X (no result) may also appear on the statement of results but not on the certificate.

Cambridge International AS Level results are shown by one of the grades a, b, c, d or e, indicating the standard achieved, ‘a’ being the highest and ‘e’ the lowest. ‘Ungraded’ indicates that the candidate’s performance fell short of the standard required for grade ‘e’. ‘Ungraded’ will be reported on the statement of results but not on the certificate. The letters Q (pending) and X (no result) may also appear on the statement of results but not on the certificate.

If a candidate takes a Cambridge International A Level and fails to achieve grade E or higher, a Cambridge International AS Level grade will be awarded if both of the following apply:

- the components taken for the Cambridge International A Level by the candidate in that series included all the components making up a Cambridge International AS Level
- the candidate’s performance on the AS Level components was sufficient to merit the award of a Cambridge International AS Level grade.
How students, teachers and higher education can use the grades

Cambridge International A Level

Assessment at Cambridge International A Level has two purposes:

• to measure learning and achievement
  The assessment:
  – confirms achievement and performance in relation to the knowledge, understanding and skills specified in the syllabus, to the levels described in the grade descriptions.

• to show likely future success
  The outcomes:
  – help predict which students are well prepared for a particular course or career and/or which students are more likely to be successful
  – help students choose the most suitable course or career.

Cambridge International AS Level

Assessment at Cambridge International AS Level has two purposes:

• to measure learning and achievement
  The assessment:
  – confirms achievement and performance in relation to the knowledge, understanding and skills specified in the syllabus.

• to show likely future success
  The outcomes:
  – help predict which students are well prepared for a particular course or career and/or which students are more likely to be successful
  – help students choose the most suitable course or career
  – help decide whether students part way through a Cambridge International A Level course are making enough progress to continue
  – guide teaching and learning in the next stages of the Cambridge International A Level course.
'While studying Cambridge IGCSE and Cambridge International A Levels, students broaden their horizons through a global perspective and develop a lasting passion for learning.'

Zhai Xiaoning, Deputy Principal, The High School Affiliated to Renmin University of China