



مدرسة الإبداع  
العلمي الدولية  
INTERNATIONAL SCHOOL  
OF CREATIVE SCIENCE

MUWAILEH

مويلح

The Complete

# OPTIONS

From Year 11 to Year 12

**AS/A Level Prospectus**

A Guide to Subjects to Help with Post-16  
Choices, at International School of  
Creative Science



# Welcome to ISCS Sixth Form

**Dear Parent(s),**

This prospectus has been compiled in an attempt to keep you both fully informed about life and expectations in the Sixth Form in the hope that we can work together to achieve success for your son/daughter. It may be useful to refer to it at various stages of the academic year. However, if you have any queries or concerns at any stage during the year, please do not hesitate to contact us.

Yours sincerely,  
**Jahida Janna**  
Head of Sixth Form

**Dear Student,**

Welcome to the ISCS Sixth Form!

You will find Grade 12/13 (well known as AS/A2-Level) a completely different experience to your previous school life. Our expectations of you will be as high as ever in terms of your attainment, attendance, uniform and punctuality to lessons, but there is no doubt that you will find studying for A levels liberating and empowering. You will have more freedom and independence compared to before, but coupled with this, there must be an acceptance of the need to be responsible and self-disciplined.

The Sixth Form curriculum is varied, balanced and offers you a great deal of opportunities. You will also be more fortunate than your predecessors in terms of the facilities that the school can offer. However, do not be under any illusions; studying for A levels is extremely hard work. As a result, we require your dedication and commitment. Learn from the wisdom and experience of former students by asking for their comments on what Grade 12/13 is like.

Above all, our hope is that you find the A-Level challenging and rewarding in every aspect, both personally and intellectually. Whenever you feel like you need help, ask your teachers and the Head of 6<sup>th</sup> Form. The door is always open.

We look forward to a rewarding and successful academic year together.

Yours sincerely,  
**Jahida Janna**  
Head of Sixth Form

## What is the Sixth Form?

The Sixth Form comprises Grades 12 and 13 and acts as the bridge between school and higher education. The term 'Sixth Form' survived the United Kingdom's Education Reform Act which changed the labeling of classes in secondary schools from 'Forms' to 'Years' in 1990. Until then the five years of compulsory secondary education were followed by two years in the Lower Sixth (Grade 12) and the Upper Sixth (Grade 13). Even after it was meant to be replaced, however, the Sixth Form survived as an entity largely because of its traditional association with standards of excellence, both in academic and social terms.

In keeping with tradition, the Sixth Form has its own head whose responsibility it is to support the academic and social development of the students in her care. Quite rightly, the main duties of the head of sixth form center on the students' academic choices and their progress in the subjects that they have opted for once those choices have been made.

During the course of their one or two years of study, the students are also advised on university applications and career options to ensure that they fully understand the range of demands that these will place on them.

Being a member of the Sixth Form brings with it great privileges in terms of more free time to study and the use of the Common Room. In exchange for this, the school expects Sixth Form students to take on extra roles and responsibilities, and make full use of the study room sessions available and time tabled into the students schedules.

ISCS Sixth Form aims to provide a unique education in keeping with the Islamic core values, preparing students with the knowledge and the skills they need to pursue further education locally and internationally. Students will gain leadership skills; will be trained to take responsibility as growing adults and above all to be independent. ISCS will also create opportunities for work experience, social skills and mentoring sessions in managing their life whilst being taught in a challenging and rewarding environment.

### ISCS Sixth Form Mission & Vision

We will achieve our goal through the provision of an outstanding curriculum with a variety of subjects taught at the highest level by a team of A Level experienced teachers creating opportunities for students to choose to expand their knowledge in their chosen subjects at University Level both locally and internationally.

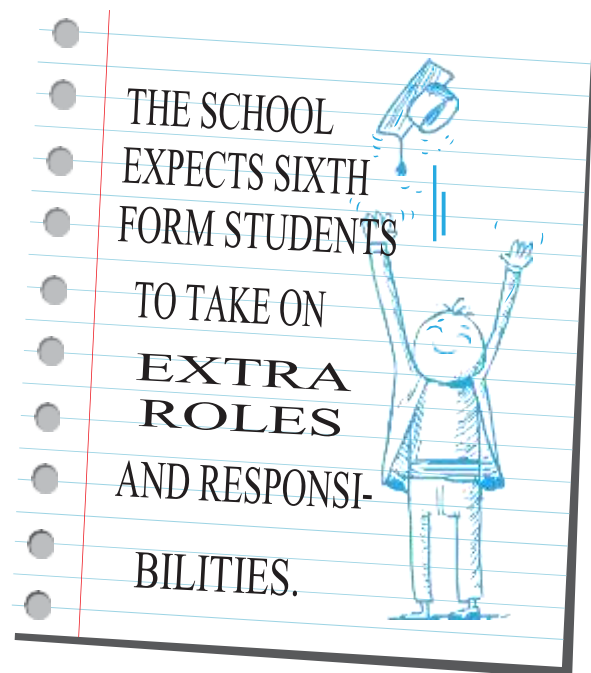
Our Sixth Form has grown in reputation since September 2008 due to the outstanding delivery, outstanding results and provision within all subject area. Our dedicated team of experienced A level teaching staff ensure that students are given the highest level of academic support throughout their study at Sixth Form both at AS and A2 level.

## Where to Next?

Students leave Intl School of Creative well equipped with the qualifications needed to go on to Higher Education. Each examination passed counts towards universities and colleges requirements. It is important that students joining the Sixth Form are good in the Arabic subjects both ASL and/or 1st Language Arabic since it is mandatory to pass these subjects to graduate from Sixth form with all required certificates attested. This enables students to make the best application possible with the most appropriate choice of institutions and course in the UAE/Middle East. Students from Intl School of Creative are also placed onto prestigious well known international universities and courses e.g Kings' and Imperial College University of London as well as a wide variety of other universities and colleges in other countries e.g Canada, US, Australia.

As we regard our senior students *ISCS Sixth Formers* to play an important role as leaders in the school community, we have created many opportunities for them to develop a variety of skills to the highest possible level. Students are recommended to accumulate at least 20 hours of community service in/out of school. The below opportunities are available to our students:

1. Science Lab Technician
2. English, Science, Maths or PE Teaching Assistant
3. Take part in the Leadership programme to organize events on their own for a group of students and manage the whole process from planning to implementation e.g. Sports Day
4. Year Book for the whole school
5. School Newsletter
6. Helping during Salaat time
7. Working alongside with Admin staff in different areas
8. Helping/mentoring Year 11 with the students' council
9. Working alongside key members of the school, including the school nurse and social worker



We are expecting 100% of our students to take on tertiary education in Universities across the world pursuing studies in a wide range of field with in house support with Universities applications and career/pathways guidance.

When students leave ISCS, we would like to think that the learning, social and cultural experiences that we have offered will ensure that they have developed the skills and the confidence that will provide them with the foundations of a successful time at university and, eventually, a fulfilling career.

## Courses at a glance



### AS, A2 and Ministry subjects

**Biology**  
**Business Studies**  
**Computing**  
**Chemistry**  
**Economics**  
**Math**  
**Physics**  
**Psychology**  
**Geography**  
**Art and Design**  
**Arabic**  
**Islamic Studies**

**All Year 12 take Arabic and Islamic Studies, following the UAE Ministry of Education syllabus. Students will also have 1 PE session each week.**

# Overview

## GRADE 12

For most students the Advanced Subsidiary (AS) courses are the only ones that they take in Grade 12. Others take a mixture of AS courses with re-sits and/or new IGCSEs that are offered to give those who have achieved less than 5 grade 4 and above the chance to get them.

To be guaranteed a place in the Sixth Form, students should have a minimum of 5 grade 9 - 5 at IGCSE and a further minimum of grade 7 in the subjects that they wish to study at AS. As years of data relating to student performance in post-16 education demonstrates, the vast majority of students who fail to meet that basic requirement do not fare well at AS Level because the demands of the courses are far greater than they are at IGCSE.

Students are unlikely to progress to an AS subject, unless they gain grade 7 at the subject in IGCSE. Good pass grades (C and above) in at least two AS levels, as well as 5 x 9 - 5 at I/GCSE are required by a wide range of colleges and universities within the UAE and at some institutions elsewhere in the world. To secure a place at the world's most prestigious universities, a further year of study in Year 13 is recommended.

## GRADE 13

Students who stay on into Grade 13 will take 3 or 4 of the subjects that they studied at AS level. It is recommended that those who opt to take A2 have achieved at least a B grade at AS because of the increased academic demands of study at that level.

As well as preparing for external examinations, those who opt to stay on in Year 13 will have to devote a great deal of time to applying for a place in university. Those applying to the UK will need to register online with the University and Colleges Admissions Service (UCAS) and most of those looking at the United States will need to do so with the Common Application Service. Universities in most Canadian provinces require individual applications but those based in Ontario rely on the Ontario Universities Application Centre (OUAC) to coordinate this for them. Applications made through UCAS, CA and OUAC are sent out to a number of universities at the same time, saving the student a lot of time and effort.

Success at A2 level guarantees a place at an excellent university and, in some cases, earns course credits at universities in Canada and America. The depth and breadth of study involved ensures that students develop the knowledge and the skills that will facilitate a smooth transition between school and higher education. A well-respected qualification, A2 has the same status as the International Baccalaureate Diploma and the American Advanced Placement tests.

# Entry Requirements

## ISCS Sixth Form Entry Requirements – ISCS Students only

Academic entry into ISCS Sixth Form normally requires **a grade 7** in the subjects students want to study at AS Level and that students have achieved at least 6 IGCSE subjects with grade 4 or above. We shall discuss individually with you and your parents any case where it turns out that you do not meet the minimum requirements, so that we can all agree how best to use the rest of your Academic career with ISCS.

The most important entry qualification, however, is your personal commitment. Our range of A-Level courses gives you a wonderful opportunity to choose a programme which is individually suited to you: to build on the knowledge and skills which you have developed up to Year 11 and to apply them in an increasingly specialised programme which will allow you to move on into Higher Education or work.

### Entry Requirements for ISCS Students:

- Students can study a maximum of 4 A2/AS Level English courses and a minimum of 2 AS/A2 Level English courses.
- Arabic is not considered part of the minimum 2 AS/A2 Level courses.
- To be accepted onto the AS Level courses, students from IGCSE should fulfil the minimum requirements of **6 grade 9 - 4** and a minimum **grade 7 in the subject they want to study** in Grade 12.
- If you achieve Grade **C and above** at AS Level, you may continue onto the A2 Level programme with a maximum of four A2 Level subjects.
- Full-time A levels are normally allocated 5 hours per week. Arabic Language and Islamic Studies are two compulsory subjects by The Ministry of Education at Grade 12.
- Students will be also be taking the compulsory Quran sessions as part of Grade 12 & 13.
- Students not meeting the minimum requirements listed above will not be accepted into the Sixth Form.

### Entry Requirements for External Students:

- As above with the following extra requirements listed below
- For **External Students**: requirements are **6 grade 9 - 5** with **grades 7** or above in the subjects they want to study at AS or A Level.
- CBSE or students coming from US/Arabic curriculum are not accepted on the GCE Courses.
- Students intending to join us in Grade 13 should have completed Grade 12 with minimum B grade, and we only accepts students from Edexcel or JCQ approved exam boards.
- GCSE students are required to undergo interview and possible entrance exams.

## Whilst on the course

The school has the right to sanction anyone not complying with school procedures. In very exceptional cases, the school can also decide to remove someone off a course if they are not performing as they should or causing hindrance to the learning of others as well as their own learning. Sixth formers have the responsibility to behave like growing adults and should always be a role model for the younger students.

### Intl School of Creative Science – AS/A Level Admission Procedures & Information

1. Admission to Sixth Form is based on first come first served basis.
2. Prospective parents may register interests to join the ISCS Sixth Form at any time during the academic year in IGCSE/GCSE/GCE (Grade 11/12) and places are not confirmed until IGCSE/GCSE/GCE results are provided in the form of an original statement of results from the relevant exam board, original IGCSE/GCSE/GCE certificate and/or attested IGCSE/GCSE/GCE copy of the certificate at the beginning of the academic year in Grade/Grade 12 or 13. Furthermore, it is important to note that proper transfer certificate and registration documents are required to complete the registration process with Ministry of Education in order to register the prospective student on our roll.
3. Entry to Sixth Form is only acceptable at the beginning of the academic year in Grade 12/13. Students cannot join the Sixth Form to study AS/A Level courses during or later in the academic year.
4. Entry to Sixth Form is based on the prospective student attaining and meeting grades requirements.
5. Prospective students/parents should email the Head of 6<sup>th</sup> Form (jahidaj@iscs.sch.ae) or call on +971 6 534 4444 Ext 3588 at the end of August to enquire about entry to Sixth Form and complete the Sixth Form Registration if full entry requirements are met.
6. If accepted, the first step will be a formal interview with the Sixth Form Coordinator/Secondary Director and prospective student including their parents. During this meeting, a learning contract will be signed (this is mandatory for all students who are/not ISCS students).
7. If required, an entry exam will be taken for the subject chosen to study in Grade 12/13.
8. An attested good conduct certificate for students within Middle East is required, and in the event the student is coming from outside the Middle East, a character reference on a school letter head with school stamp/seal is a must.
9. A copy of Grade 10 and 11 Report Card is also required to keep on file for University Requirements purposes.
10. Students can only attend registered AS/A Level courses chosen to study in Grade 12/13.
11. Specifications taught in Sixth Form are from Edexcel UK approved JCQ Exam Board.
12. Students transferring to join ISCS Sixth Form in Grade 13 can only do so if they are transferring from an Edexcel Centre or approved JCQ exam board with all exams taken in Grade 12 from Edexcel or JCQ Board Post-16 specifications. The transferring exam centre/student should also provide ISCS with their UCI (Unique Candidate Identifier number).



## Studying in the Sixth Form

The Sixth Form will be the first time when students are not in all day time-tabled lessons. They must, therefore, learn how to use **STUDY TIME** effectively.

- Most Grade 12/13 students will have lots of unsupervised sessions. During the free times students are asked to work independently and arrange meeting with subject teachers for extra help/clarification.
- At the start of Term 1, students will sit with the Head of Sixth Form, and depending on their course load, sessions will be allocated for mandatory study sessions in the library. These sessions are timetabled into each students study schedules. It is important to note, these study sessions are not optional, and failure to attend may result in student being on attendance report.
- There is no Early Leave option for students in Grade 12, unless under special circumstances. In this case, a meeting is required with the head of sixth form and a letter of consent signed.
- There is always background reading, research, reviewing and learning to do even if ALL work that is to be marked has been completed and handed in.
- Appointments, where possible should be arranged out of school hours, **BUT** if this is impossible, under no circumstances should they be arranged during timetabled lessons with the exception of sickness which also requires a doctor's note if more than 1 day and up to 1 day a parental note is enough.
- Absence from lessons causes loss of continuity which can lead to problems and should therefore be kept to an absolute minimum. Under **NO** circumstances should students take holidays during term time unless this is an **UNAVOIDABLE FAMILY** emergency. *(Please check dates of module exams and avoid taking holidays during/before/after those dates).*
- Absence notes are still required in the Sixth Form; a parental phone call informing the school that a student is about to be absent is also very helpful. In the event that you are absent more than one day, a doctor's note or a note from your parent is mandatory.
- Lateness notes are still required in the Sixth Form and will be available directly from the Sixth Form coordinator and respective supervisors. Punctuality to lessons is a must and teachers will have the right to refuse entry to lesson if this is not observed correctly.
- Students' behaviour policy is the same as secondary in additions to the following
- All students should be in school with the correct school's uniform at all times. Our male students are expected to have their hair cut normal, short and clean (no lines/gel/or any other style). During winter, school jumpers/cardigan should be worn. Shoes should be black or of dark colour with no other colours. Normal School shoes should be worn at all times. Trainers or any other type of trainers are not allowed. Students will take the sole responsibility of asking when in doubt.

# Progress Checks and Reports

Regular monitoring of each student's progress takes place within the Sixth Form. If progress causes concern, parents will be contacted via e-mail or phone. A meeting will be scheduled with the subject's teacher, parents and the Sixth Form coordinator as when required.

At the beginning of the year all subjects will carry out 3 Major Assessments before the January Exams to identify any students' concerns at an early stage. At this point any students not performing as they should would be identified for a one to one meeting with the subject teacher & Sixth Form Coordinator. All Grade 12/13 teachers will monitor/record all tests/quizzes/assessments done in class which are then used as a means to report progress to parents as when needed. These assessment results will also be used to determine whether someone will drop a subject or not if they are on conditional learning contract.

A Parents' Evening with Sixth Form teachers will take place before/after the formal Exam in January of each academic year.

All students taking IAL subjects will be required to take the first unit exams in January, results of which will be available around Mid-March. ALL students will be also required to take exams in May/June with final results in August.

Attendance during tutor time in main school's assembly and lessons will be recorded electronically. Punctuality and attendance concerns will be reported to parents daily by 9am. Attendance & Punctuality figures are also included in Letter of Recommendation for University.

## Daily Procedures & Registration (am/pm)

1. Arrive school on time and make use of the common room.
2. All Students are required to attend registration & assemblies with the rest of the school.
3. Students are required to follow the normal school's bell for lessons.
4. Students are not allowed to order food from outside and are requested to ensure that they plan ahead and bring food with them or use the school canteen.
5. Students need to wear full school uniform at all times and hair normally done.
6. Students to stay on site and will not be permitted to leave school site unless authorised by the Director or Head of Sixth Form for exceptional cases with parental permissions.
7. Students will be expected to attend all lessons on time and make sure they keep up with 100% attendance.
8. Students can arrange to meet teachers during school times and arrangements should be made at least 24 hours prior to the meeting unless the teacher agrees alternatively.
9. Mobile phone are **NOT** allowed on school site, in lessons, common rooms or in the corridors.
10. Students should not eat/drink in classrooms or in assemblies.
11. Do not stand or chat in corridors or in empty classrooms.

12. Do not use/occupy empty classrooms unless you have a lesson.
13. Students can use the canteen during break times and food can be taken out and consumed in the **common rooms only**.
14. All students should respect the school environment and should ensure that the clear up after eating.
15. Students using the common room should ensure that they respect others and others' belongings.

### **Extra-Curricular Activities which can be added to CV**

- Social skills (Helping in the community eg Sharjah Humanitarian Services, Lab Assistants, Teaching Assistant, Sponsoring Orphanage, Mentoring Grade 11...)
- Young Leaders Programme & Assisting Teachers during free time links with subject they are doing.
- Activities and Projects with higher primary and secondary (Links with PE, IT, Maths...) Sharing of experiences during assemblies to other students or meeting with parents.
- Attend support/catch classes during lunch time, after school or Saturday for any subjects they are falling behind.

# What is GCE AS/A Level?

The General Certificate of Education (Advanced Level) or A Level is the 'gold standard' of International Qualifications. The International A Level is one of the most recognised qualifications around the world and it is accepted as proof of academic ability for entry to universities worldwide.

Study and examination at A Level gives students in-depth knowledge and lifelong skills that prepare them for success in higher education and employment.

The A Level is awarded after successful completion of the Advanced Subsidiary AS (Year 12) and the A2 (Year 13) courses.

AS Level examinations are usually taken at the end of Year 12. Years 12/13 at ISCS are based on 5 hours (6 Sessions) of guided learning per week per subject. AS Levels are highly specialised and a student will normally take a **minimum of two** to a **maximum of four** subjects.

At ISCS, we offer the following subjects:

- Mathematics
- Physics
- Chemistry
- Biology
- Business Studies (depends on minimum 5 students)
- Economics (depends on minimum 5 students)
- Computing (depends on minimum 5 students)
- Psychology (depends on minimum 5 students)
- Geography (depends on minimum 5 students)
- Art and Design (depends on minimum 5 students)
- Arabic (Only 1<sup>st</sup> Language available with Edexcel, MOE G12 Arabic compulsory for all)
- Islamic Studies
- Moral Education

There are five passing grades (A–E) at GCE AS Level and (A\*–E) at GCE A Level.

An AS level qualification is normally made up of three units, each assessed by a written examination that can be taken in January (only IAL subjects) and June. Some subjects (for example the sciences) will also have a third practical unit. Some other subjects may have only two units to compromise a full AS Level.

# Subject Guide

IAL

# Business Studies

Subject of study in Year 12

## Course Overview:

### Pearson Edexcel International Advanced Subsidiary in Business

This qualification consists of two externally-examined units. The International Advanced Subsidiary is the first half of the International Advanced Level qualification and consists of two IAS units, Units 1 and 2. This qualification may be awarded as a discrete qualification or may contribute 50 per cent towards the International Advanced Level qualification.

#### Unit 1

##### Marketing and People

- In this unit, students are introduced to the market, explore the marketing and people functions and investigate entrepreneurs and business start-up.
- The examination lasts 2 hours. The paper is marked out of 80 marks. The paper will include short-open response and extended-writing questions, based on sources. The paper will include questions that require students to use quantitative skills.

#### Unit 2

##### Managing Business activities

- This unit enables students to develop an understanding of raising and managing finance, and measuring business performance. It outlines the importance of using resources efficiently within a business to ensure that goods or services can be delivered effectively and efficiently, and to a high quality.
- The examination lasts 2 hours. The paper is marked out of 80 marks. The paper will include short open-response and extended-writing questions, based on sources. Questions may require students to draw on their knowledge from Unit 1. The paper will include questions that require students to use quantitative skills.



IAL

# Business Studies

Subject of study in Year 13

## Course Overview:

### Pearson Edexcel International Advanced Level in Business

This qualification consists of four externally-examined units. The International Advanced Level consists of the two IAS units (Units 1 and 2) plus two IA2 units (Units 3 and 4). Students wishing to take the International Advanced Level must, therefore, complete all four units.

#### Unit 3

##### Business decisions and strategy

- In this unit, students develop their understanding of the concepts introduced in Units 1 and 2, and explore influences on business strategy and decision making.
- The examination lasts 2 hours. The paper is marked out of 80 marks. The paper will include short open-response and extended-writing questions, based on sources. Questions may require students to draw on their knowledge from Units 1 and 2.

#### Unit 4

##### Global Business

- Students investigate businesses that trade on a global scale and explore their reasons for doing so. Students develop an understanding of the globally competitive environment and consider the ethical and moral dimensions of global business activities.
- The examination lasts 2 hours. The paper is marked out of 80 marks. The paper will include short open-response and extended-writing questions. Questions may require students to draw on their knowledge from Units 1, 2 and 3.



IAL/AS

# Biology

Subject of study in Year 12

## Course Overview:

There are 3 units in total and the content is relevant for students who have achieved a GCSE in Biology and who want to study this subject at a higher level. The content has been updated from the previous Pearson Edexcel International Advanced Subsidiary in Biology and Pearson Edexcel International Advanced Level in Biology qualifications. It covers the major topics in biology, including biological molecules, diet, transport, health, cells, development, biodiversity, conservation, energy, the environment, microbiology, immunity, respiration, the internal environment, coordination and gene technology. It is recommended that students have at least a grade B in their English iGCSE as literacy demands in Biology are high.

### Unit 1

- Comprised of two key topics;
- 1. Molecules, Transport and Health
- 2. Membranes, Proteins, DNA and Gene Expression
- First examination of this unit is in January
- Worth 40% of total A/S level and 20% of full A-level

### Unit 2

- Comprised of two key topics;
- 3. Cell Structure, Reproduction and Development
- 4. Plant Structure and Function, Biodiversity and Conservation
- First examination in June
- Worth 40% of total A/S level and 20% of full A-level

### Unit 3

- Students are expected to develop experimental skills, and a knowledge and understanding of experimental techniques, by carrying out a range of practical experiments and investigations while they study Units 1 and 2.
- First examination in June and worth 20% of total A/S level and 10% of full A-level





IAL/A2

# Biology

Subject of study in Year 13

## Course Overview:

There are 3 units in total and the content is relevant for students who have achieved A/S Biology (at least a C grade at A/S level) and who want to study this subject at a higher level. The content has been updated from the previous Pearson Edexcel International Advanced Subsidiary in Biology and Pearson Edexcel International Advanced Level in Biology qualifications. It covers the major topics in biology, including photosynthesis, respiration, forensics, evolution, nervous system and behaviour, to name but a few areas.. It is recommended that students have at least a grade B in their English iGCSE as literacy demands in Biology are high.

### Unit 4

- Comprised of two key topics;
- 5. Energy Flow, Ecosystems and the Environment
- 6. Microbiology, Immunity and Forensics
- First examination of this unit is in January
- Worth 40% of total A2 and 20% of full A-level

### Unit 5

- Comprised of two key topics;
- 7. Respiration, Muscles and the Internal Environment
- 8. Coordination, Response and Gene Technology
- First examination in June
- Worth 40% of total A2 and 20% of full A-level

### Unit 6

- This unit will assess students' knowledge and understanding of the experimental procedures and techniques that were developed in Units 1, 2, 4 and 5.
- First examination in June and worth 20% of total A2 and 10% of full A-level



IAL/AS

# Chemistry

Subject of study in Year 12

## Course Overview:

The content is relevant for students who have achieved a GCSE in Chemistry and who want to study the subject at a higher level. The content has been updated from the previous Pearson Edexcel International Advanced Subsidiary in Chemistry and Pearson Edexcel International Advanced Level in Chemistry qualifications. It covers the major topics in chemistry, including molar calculations, structure and bonding, energetics, rates, equilibria, Group chemistry, transition metals and a range of organic chemistry; as well as associated experimental skills. Strong mathematical skills are required for this subject.

### Unit 1

- Worth 40% of total A/S level and 20% of full A-level
- Comprised of the following topics;
- Formulae, Equations and Amount of Substance
- Atomic Structure and the Periodic Table
- Bonding and Structure
- Introductory Organic Chemistry and Alkanes
- Alkenes
- First examination in January

### Unit 2

- Worth 40% of total A/S level and 20% of full A-level
- Comprised of the following topics;
- Energetics
- Intermolecular Forces
- Redox Chemistry and Groups 1, 2 and 7
- Introduction to Kinetics and Equilibria
- Organic Chemistry: Alcohols, Halogenoalkanes and Spectra
- First examination in June

### Unit 3

- Students are expected to develop experimental skills, and a knowledge and understanding of experimental techniques, by carrying out a range of practical experiments and investigations while they study Units 1 and 2.
- First examination in June and worth 20% of total A/S level and 10% of full A-level



IAL/A2

# Chemistry

Subject of study in Year 13

## Course Overview:

There are 3 units in total and the content is relevant for students who have achieved a GCSE in Biology and who want to study this subject at a higher level. The content has been updated from the previous Pearson Edexcel International Advanced Subsidiary in Biology and Pearson Edexcel International Advanced Level in Biology qualifications. It covers the major topics in biology, including biological molecules, diet, transport, health, cells, development, biodiversity, conservation, energy, the environment, microbiology, immunity, respiration, the internal environment, coordination and gene technology. It is recommended that students have at least a grade B in their English iGCSE as literacy demands in Biology are high.

### Unit 4

- Worth 40% of A2 level and 20% of full A-level
- Comprised of the following topics;
  - Kinetics
  - Entropy and Energetics
  - Chemical Equilibria
  - Acid-base Equilibria
  - Organic Chemistry: Carbonyls, Carboxylic Acids and Chirality
- First examination in January

### Unit 5

- Worth 40% of A2 level and 20% of full A-level
- Comprised of the following topics;
  - Redox Equilibria
  - Transition Metals and their Chemistry
  - Organic Chemistry: Arenes
  - Organic Nitrogen Compounds: Amines, Amides, Amino Acids and Proteins
  - Organic Synthesis
- First examination in June

### Unit 6

- Students are expected to develop further the experimental skills and the knowledge and understanding of experimental techniques that they acquired in Units 1 and 2 (tests for anions and cations, gases and organic functional groups) by carrying out a range of practical experiments and investigations while they study Units 4 and
- First examination in June and worth 20% of total A2 and 10% of full A-level



IAL

# Computer Science

Subject of study in Year 12

## Course Overview:

The aims of a course based on Cambridge International AS and AL Computer Science, whether leading to an AS or A Level qualification are:

- to develop computational thinking
- to develop an understanding of the main principles of solving problems using computers
- to develop an understanding that every computer system is made up of subsystems, which in turn consist of further subsystems
- to develop an understanding of the component parts of computer systems and how they interrelate, including software, data, hardware, communications and people
- to acquire the skills necessary to apply this understanding to develop computer-based solutions to problems.

### Paper 1

#### Theory Fundamentals

- This written paper contains short-answer and structured questions.
- There is no choice of questions
- 75 marks
- Externally Assessed
- 1 Hour 30 mins Duration
- The AS weighting is 50%
- The A2 Weighting is 25%

### Paper 2

#### Fundamental Problem -solving and Programming Skills

- There is no choice of questions.
- Topics will include those given in the Pre-Release material.
- 75 marks
- Externally assessed
- 2 Hours Duration
- The AS weighting is 50%
- The A2 Weighting is 25%



IAL

# Computer Science

Subject of study in Year 13

## Course Overview:

Computer science is the study of the foundational principles and practices of computation and computational thinking and their application in the design and development of computer systems.

This syllabus aims to encourage the development of computational thinking, that is thinking about what can be computed and how by the use of abstraction and decomposition. It includes consideration of the data required. Learning computational thinking involves learning to program, by writing computer code, because this is the means by which computational thinking is expressed.

### Paper 3

#### Advanced Theory

- This written paper contains short-answer and structured questions.
- There is no choice of questions
- 75 marks
- Externally Assessed
- 1 Hour 30 mins Duration
- The A2 Weighting is 25%

### Paper 4

#### Further Problem -solving and Programming Skills

- There is no choice of questions.
- Topics will include those given in the Pre-Release material.
- 75 marks
- Externall assessed
- 2 Hours Duration
- The A2 Weighting is 25%



IAL/AS

# Maths

Subject of study in Year 12

<b>Pure Mathematics 1</b>	<b>Pure Mathematics 2</b>	<b>Statistics 1</b>	<b>Mechanics 1</b>
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## Content and assessment overview

Each unit:

- Is externally assessed
- Has a written examination of 1 hour and 30 minutes
- Has 75 marks

Unit	*Unit code:	Availability	First assessment	IAS weighting	IAL weighting	Content overview
<b>Pure mathematics units</b>						
P1: Pure Mathematics 1	WMA11/01	January, June and October	January 2019	33%	16%	Algebra, Geometry, Trigonometry, Differentiation, Integration
P2: Pure Mathematics 2	WMA12/01	January, June and October	June 2019	33%	16%	Proof, Algebra, Geometry, Plane, sequences and series, Exponential and logarithms.
P3: Pure Mathematics 3	WMA13/01	January, June and October	January 2020	NA	16%	Algebra and functions, trigonometry, exponentials, differentiation, integration.
P4: Pure Mathematics 4	WMA14/01	January, June and October	June 2020	NA	16%	Proof, algebra and functions, geometry, binomial expansion, differentiation.
FP1: Further Pure Mathematics 5	WFMO01/01	January and June	June 2019	33%	16%	Complex numbers, roots of quadratic eqns, numerical solutions, coordinate systems, matrix algebra.

IAL/A2

# Maths

Subject of study in Year 13

<b>Pure Mathematics 1</b>	<b>Pure Mathematics 2</b>	<b>Statistics 1</b>	<b>Mechanics 1</b>
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## QUALIFICATION OVERVIEW

### Pearson Edexcel International Advanced Subsidiary

The IAL in Mathematics, Further Mathematics and Pure Mathematics each consist of three externally – examined units:

Qualification	Compulsory units	Optional units
IAS in Mathematics	P1, P2	M1, S1, D1
IAS in Further Mathematics	FP1	FP2, FP3, M1, M2, M3, S1, S2, S3, D1
IAS in Pure Mathematics	P1, P2, FP1	

### Pearson Edexcel International Advanced Subsidiary

The IAL in Mathematics, Further Mathematics and Pure Mathematics each consist of three externally – examined units:

Qualification	Compulsory units	Optional units
IAS in Mathematics	P1, P2, P3, P4	M1 and S1 or M1 and D1 or M1 and M2 or M1 and D1 or S1 and S2
IAS in Further Mathematics	FP1 and either FP2 or FP3	FP2, FP3, M1, M2, M3, S1, S2, S3, D1
IAS in Pure Mathematics	P1, P2, P3, P4, FP1	FP2 or FP3

IAL/AS

# Physics

Subject of study in Year 12

## Course Overview:

The content is relevant for learners who have achieved a GCSE in Physics and who want to study this subject at a higher level. The content has been updated from the previous Pearson Edexcel International Advanced Subsidiary in Physics and the previous Pearson Edexcel International Advanced Level in Physics qualifications. It covers the major topics in physics, including mechanics, materials, waves, electricity, fields, thermodynamics, radiation, particles, oscillations and cosmology. Students require at least a grade A in GCSE mathematics in order to be able to access the course.

### Unit 1

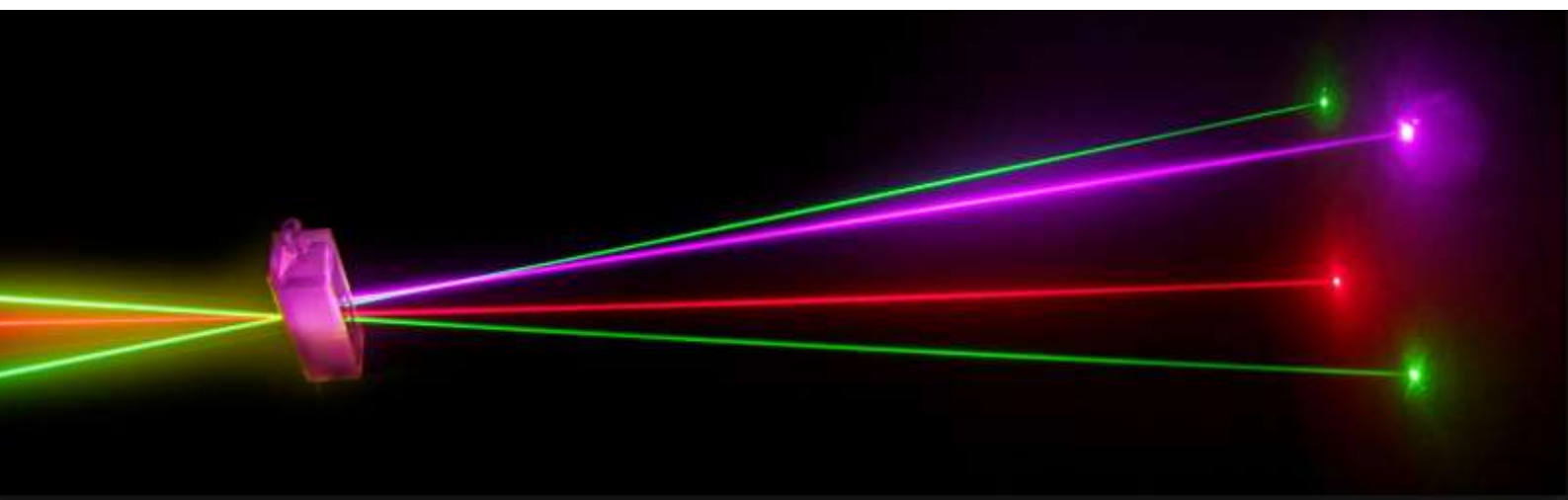
- Worth 40% of total A/S level and 20% of full A-level
- Comprised of the following topics;
- Topic 1: Mechanics
- Topic 2: Materials
- First examination in January

### Unit 2

- Worth 40% of total A/S level and 20% of full A-level
- Comprised of the following topics;
- Topic 3: Waves and Particle Nature of Light
- Topic 4: Electric Circuits
- First examination in June

### Unit 3

- Students are expected to develop experimental skills, and a knowledge and understanding of experimental techniques, by carrying out a range of practical experiments and investigations while they study Units 1 and 2.
- First examination in June and worth 20% of total A/S level and 10% of full A-level





IAL/A2

# Physics

Subject of study in Year 13

## Course Overview:

The content is relevant for learners who have achieved A/S Physics (at least a grade C) and who want to study this subject at a higher level. The content has been updated from the previous Pearson Edexcel International Advanced Subsidiary in Physics and the previous Pearson Edexcel International Advanced Level in Physics qualifications. It covers the major topics in physics, including mechanics, materials, waves, electricity, fields, thermodynamics, radiation, particles, oscillations and cosmology. Students require at least a grade A in GCSE mathematics in order to be able to access the course.

### Unit 4

- Worth 40% of A2 and 20% of full A-level
- Comprised of the following topics;
- Further Mechanics
- Electric and Magnetic Fields
- Nuclear and Particle Physic
- First examination in January

### Unit 5

- Worth 40% of A2 and 20% of full A-level
- Comprised of the following topics;
- Thermodynamics
- Nuclear Decay
- Oscillations
- Astrophysics and Cosmology
- First examination in June

### Unit 6

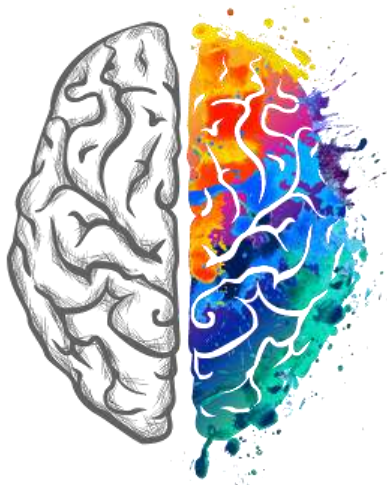
- Students are expected to further develop the experimental skills and the knowledge and understanding of experimental techniques that they acquired in Units 1 and 2 by carrying out a range of practical experiments and investigations while they study Units 4 and 5.
- First examination in January and worth 20% of A2 and 10% of full A-level



AS

# GCE Psychology

Subject of study in Year 12



Edexcel AS Psychology has been designed to engage and inspire students by showing how an understanding of many contemporary issues requires a grasp of fundamental psychological ideas.

The course is suitable for students gaining at least a grade B at GCSE Biology and English.

## Externally assessed

- Availability: May/June
- First assessment: 2016

### Paper 1: Social and cognitive psychology

Overview of content

\*Paper code: 8PS0/01

#### • Topic 1: Social psychology

Students must show understanding that social psychology is about aspects of human behaviour that involve the individual's relationship to other persons, groups and society, including cultural influences on behaviour. Individual differences and developmental psychology must be considered when learning about obedience, prejudice, personality and cultural influences on social behaviour.

#### • Topic 2: Cognitive psychology

Students must show understanding that cognitive psychology is about the role of cognition/cognitive processes in human behaviour. Processes include perception, memory, selective attention, language and problem solving. The cognitive topic area draws on the likeness of cognitive processing to computer processing. Individual differences and developmental psychology must be considered when learning about memory differences and memory deficits and how this develops as the brain ages.



## Paper 2: Biological psychology and learning theories

Overview of content

\*Paper code: 8PS0/02

### ● Topic 3: Biological psychology

Students must show understanding that biological psychology is about the mechanisms within our body and how they affect our behaviour, specifically focusing on aggression. Individual differences and developmental psychology must be considered when learning about issues such as aggression caused by an accident and how the function of structures of the brain can be affected by the environment.

### ● Topic 4: Learning theories

Students must show understanding that learning theories are about learning from the environment and the effects of conditioning, reinforcement, punishment, the role of reward and social learning on the organism. Individual differences and developmental psychology must be considered when learning about the effect of rewards and punishment on individuals and how children develop through the different ways of learning, including social learning.

## A2

# GCE Psychology

Subject of study in Year 13

The A2 units build on the work covered in the AS course but provide opportunities for the students to select areas of specialism that best suit their particular needs.

### **Content summary:**

The Pearson Edexcel Level 3 Advanced GCE in Psychology is structured into nine topic areas. Topics 1–4 are compulsory and focus on the areas that have laid the foundations of modern psychological understanding. Topics 5–8 focus on how our understanding of psychology is applied today. Topic 5 is compulsory. One topic from 6, 7 or 8 must be studied. Finally, Topic 9 summarises the psychological skills and research methods covered in the qualification.

### **This qualification consists of three externally examined papers.**

Students must complete all assessment in May/June in any single year. Students must select two of the following four applications:

- criminological psychology
- child psychology
- health psychology: substance misuse
- Sport psychology.

### **Assessment:**

Examination paper of 1 hour 30 minutes duration, divided into four options, of which students must select two. Each option will consist of short-answer questions and a section of extended writing.

### **Content summary:**

This unit focuses on the debates between approaches within contemporary psychology. In the clinical psychology section of the unit, students study aspects of clinical psychology, which include how different approaches in psychology explain and treat mental health issues. In the issues and debates section, students will be asked to draw on other areas of the specification in order to understand conceptual and methodological issues. Students will develop an understanding of how to use theories and evidence from different areas of psychology and apply them to issues.

### **Assessment:**

Examination paper of 2 hours duration, divided into two sections, one focusing on clinical psychology, one on issues and debates. Each section will consist of short-answer questions and a section of extended writing. Students must answer both parts.

IAL

# Geography

Subject of study in Year 12

Section B: Compulsory short-answer questions on research and fieldwork investigation.  
Section C: Choice of one fieldwork question, on either Topic 1: Crowded Coasts or Topic 2: Urban Problems,

**Our Geography curriculum at ISCS is designed according to Edexcel iGCSE & IA level. Our AS level Geography curriculum at ISCS is designed to develop the students' knowledge and understanding of geographical concepts and appreciate the relevance of these concepts to our changing world.**

Paper 1: Unit One (*Unit code: WGE01/01)	Paper 2: Geographical Investigations (*Unit code: WGE02/01)
<b>Written examination: 1 hour and 45 minutes</b> <b>60% of the qualification 90 marks</b>	<b>Written examination: 1 hour and 30 minutes</b> <b>40% of the total IAS 60 marks</b>
<b>Content overview</b> <ul style="list-style-type: none"><li>• Area of study 1, Topic 1: World at Risk</li><li>• Area of study 1, Topic 2: Going Global</li></ul>	<b>Content overview</b> <ul style="list-style-type: none"><li>• Topic 1: Crowded Coasts</li><li>• Topic 2: Urban Problems, Planning and Regeneration</li></ul>
<b><u>Assessment overview:</u></b> Section A: Data response and short-answer questions. Section B: Choice of longer/guided essay questions, on either Topic 1: World at Risk or Topic 2: Going Global.	<b><u>Assessment overview:</u></b> Section A: Data response and short-answer questions on Topics 1 and 2: Crowded Coasts and Urban Problems, Planning and Regeneration.

### Qualification aims and objectives:

- Understand the nature and use of different types of geographical information, including qualitative and quantitative data, primary and secondary sources of data, images, factual text and discursive/creative material, digital data, numerical and spatial data and innovative forms of data, including crowd-sourced and 'big data' and including dot maps, kite diagrams, linear and logarithmic scales, dispersion diagrams, aerial/oblique/ground/satellite images, and GI
- Collect, analyse and interpret such information, and demonstrate the ability to understand and apply suitable analytical approaches for the different information types.
- Undertake informed and critical questioning of data sources, analytical methodologies, data reporting and presentation, including the ability to identify sources of error in data and to identify the misuse of data
- Communicate and evaluate findings, draw well-evidenced conclusions informed by wider theory, and construct extended written argument about geographical matters

# IAL/AS

# Economics

## Subject of study in Year 12

### Pearson Edexcel International Advanced Subsidiary in Economics

This qualification consists of two externally-examined units.

The International Advanced Subsidiary is the first half of the International Advanced Level qualification and consists of two IAS units, Units 1 and 2. This qualification may be awarded as a discrete qualification or may contribute 50 per cent towards the International Advanced Level qualification.

IAS Unit 1: Markets in action	*Unit code WEC11 / 01	
Externally assessed Written examination: 1 hour and 45 minutes Availability: January, June and October First assessment: January 2019 80 marks	50% of the total IAS	25% of the total IAL
<b>Content overview</b> <ul style="list-style-type: none"><li>• Introductory concepts</li><li>• Consumer behaviour and demand</li><li>• Supply</li><li>• Price determination</li><li>• Market failure</li><li>• Government intervention in markets</li></ul>		
<b>Assessment overview</b> <p><b>Section A:</b> Six multiple-choice questions (6 marks). <b>Section B:</b> Five short-answer questions (20 marks). <b>Section C:</b> A five-part question, based on data provided in a source booklet (34 marks). <b>Section D:</b> One 20-mark essay question from a choice of two (20 marks).</p>		
IAS Unit 2: Macroeconomic performance and policy	*Unit code WEC12 / 01	
Externally assessed Written examination: 1 hour and 45 minutes Availability: January, June and October First assessment: June 2019 80 marks	50% of the total IAS	25% of the total IAL
<b>Content overview</b> <ul style="list-style-type: none"><li>• Measures of economic performance</li><li>• Aggregate demand (AD)</li><li>• Aggregate supply (AS)</li><li>• National income</li><li>• Economic growth</li><li>• Macroeconomic objectives and policies</li></ul>		
<b>Assessment overview</b> <p><b>Section A:</b> Six multiple-choice questions (6 marks). <b>Section B:</b> Five short-answer questions (20 marks). <b>Section C:</b> A five-part question, based on data provided in a source booklet (34 marks). <b>Section D:</b> One 20-mark essay question from a choice of two (20 marks).</p>		

# IAL/A2

# Economics

## Subject of study in Year 13

### Pearson Edexcel International Advanced Subsidiary in Economics

This qualification consists of four externally-examined units.

The International Advanced Level consists of the two IAS units (Units 1 and 2) plus two IA2 units (Units 3 and 4). Students wishing to take the International Advanced Level must, therefore, complete all four units.

IAS Unit 3: Business behaviour	*Unit code WEC13 / 01	
Externally assessed Written examination: 2 hours Availability: January, June and October First assessment: January 2020 80 marks	50% of the total IA2	25% of the total IA2
<b>Content overview</b> <ul style="list-style-type: none"><li>• Types and sizes of businesses</li><li>• Revenue, costs and profits</li><li>• Market structures and contestability</li><li>• Labour markets</li><li>• Government intervention</li></ul>		
<b>Assessment overview</b> <p><b>Section A:</b> Six multiple-choice questions (6 marks). <b>Section C:</b> A five-part question, based on data provided in a source booklet (34 marks). <b>Section D:</b> Two 20-mark essay question from a choice of three (40 marks).</p>		
IAS Unit 4: Developments in the global economy	*Unit code WEC14 / 01	
Externally assessed Written examination: 1 hour and 45 minutes Availability: January, June and October First assessment: June 2019 80 marks	50% of the total IA2	25% of the total IA2
<b>Content overview</b> <ul style="list-style-type: none"><li>• Causes and effects of globalisation</li><li>• Trade and the global economy</li><li>• Balance of payments, exchange rates and international competitiveness</li><li>• Poverty and inequality</li><li>• The role of the state in the macroeconomy</li><li>• Growth and development in developing, emerging and developed economies</li></ul>		
<b>Assessment overview</b> <p><b>Section A:</b> Six multiple-choice questions (6 marks). <b>Section C:</b> A five-part question, based on data provided in a source booklet (34 marks). <b>Section D:</b> Two 20-mark essay question from a choice of three (40 marks).</p>		

**We wish you all the best with your  
choices, and a wonderful, fruitful  
journey for the upcoming year  
Insha'Allah.**

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*"The hardest choices in life aren't between what's right and what's wrong but between what's right and what's best." — Jamie Ford, Hotel on the Corner of Bitter and Sweet*

*"But until a person can say deeply and honestly, "I am what I am today because of the choices I made yesterday," that person cannot say, "I choose otherwise." — Stephen R. Covey, The 7 Habits of Highly Effective People: Powerful Lessons in Personal Change*

*"In the long run, we shape our lives, and we shape ourselves. The process never ends until we die. And the choices we make are ultimately our own responsibility." - Eleanor Roosevelt*

*"Knowledge exists potentially in the human soul like the seed in the soil; by learning the potential becomes actual." - Al-Ghazali*

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