

**SENIOR CYCLE
OPTIONS &
SUBJECT
CHOICE**



SUBJECT CHOICE GUIDELINES

Most students study 7 subjects for Leaving Certificate

Irish, English, Maths, and a third language are core subjects for most students.

3 more subjects for you to select.

Every effort is made to ensure that students get their choice of options for Leaving Certificate classes (but not always possible)

TRANSITION YEAR

We recommend Transition Year for most students

- Fact 1: Transition Year is good for student's personal development
- Fact 2: Students who do TY **do better in Leaving Cert** than students who go directly to LC. (TY students get an average of 45 points more)
- It is designed to act as a bridge between the Junior Cycle and Leaving Certificate programmes
- The Transition Year offers students an opportunity to:
 - Engage in independent, self-directed learning
 - Develop general, technical and academic skills
 - Mature and develop without the pressure of an examination

LEAVING CERT APPLIED PROGRAMME (LCA)



Traditional LC is very academic



Leaving Cert Applied provides an alternative two-year programme of study



LCA focuses on a wider range of skills and abilities than purely academic success



Complete key assignments and tasks

OTHER OPTIONS AFTER THE LEAVING CERT

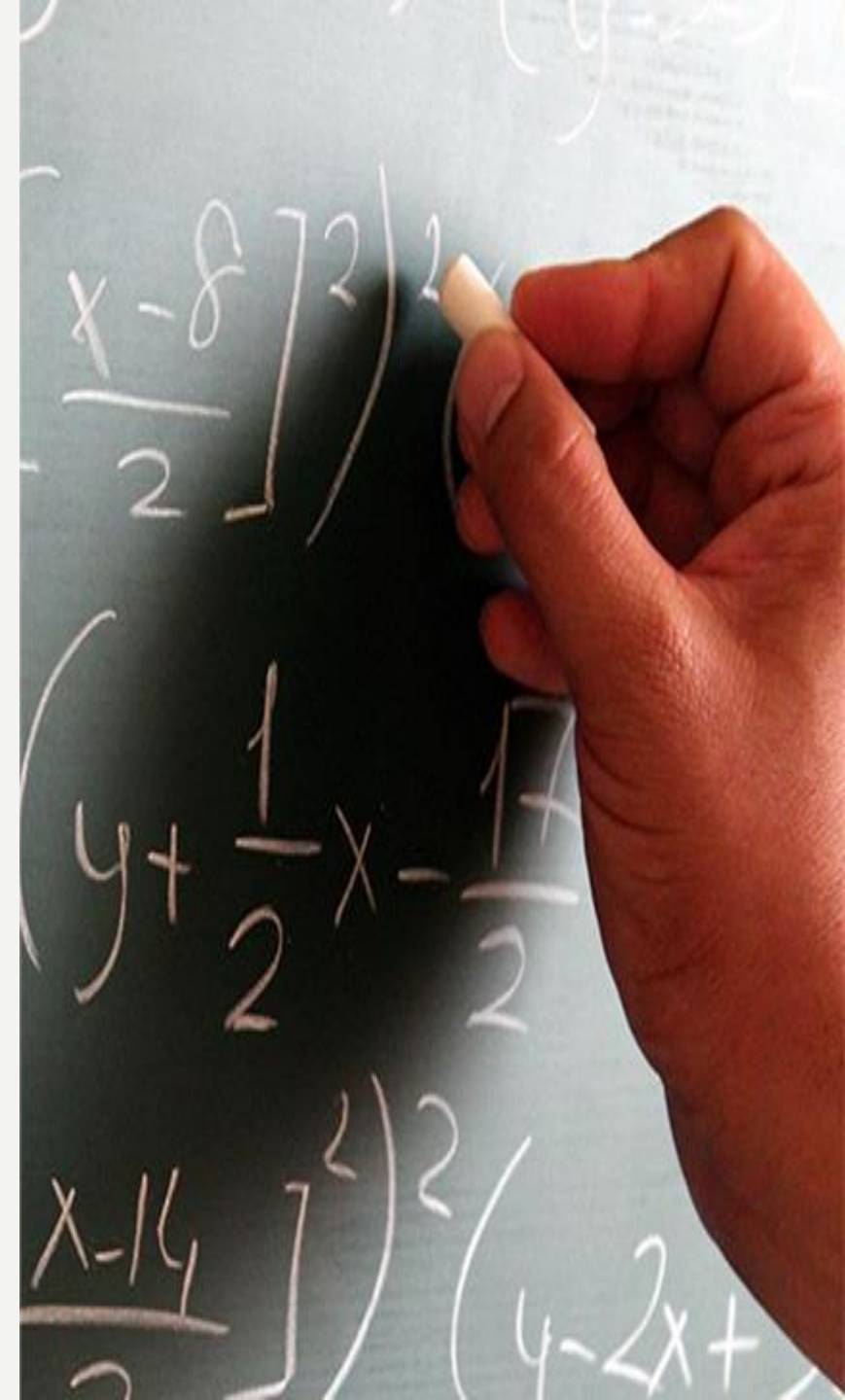
PLC's (e.g Ballyfermot College of Further Education) – don't require LC points

Apprenticeships

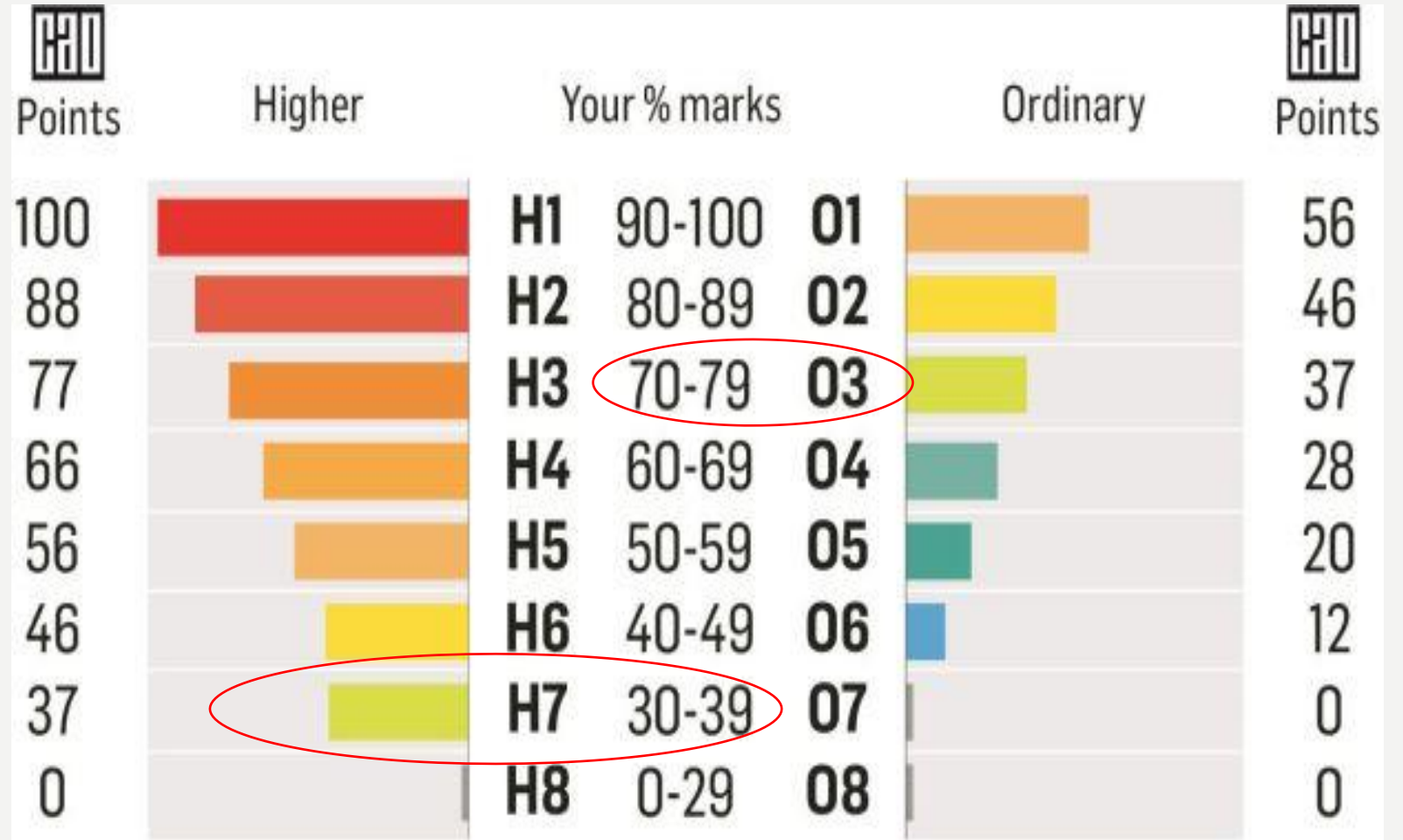
World of work

Gap year

- To go to **3rd level** College/university (TCD/UCD/DCU/Maynooth/TU etc) **you need Leaving Cert CAO points**
- The **maximum** points possible is **625**
- All courses require different points
- **Higher level subjects** are worth **more points** & higher level maths is worth **25 bonus points** for a pass grade above 40%



LEAVING CERT SUBJECTS ARE SPLIT INTO HIGHER AND ORDINARY LEVEL



+25 Bonus points for H1-H6 maths

LCVP link modules

Distinction 66

Merit 46

Pass 28



- Your **TOP 6 subjects only** are counted for Leaving Cert **points** for college
- Different course require different subjects e.g. English, Maths.
- Other courses need a **Science** subject
- Some courses require **Irish** or a **foreign language**



IF YOU SPEAK ANOTHER LANGUAGE AT HOME YOU MAY BE ABLE TO TAKE THIS AS AN EXTRA SUBJECT OUTSIDE OF SCHOOL SUCH AS RUSSIAN, ROMANIAN, LATVIAN, ARABIC AND MANY MORE!

EXAMINATIONS.IE



COLLEGE MATRICULATION

- Each college has certain **subject requirements**, without which a student will not be considered for any college place. **(Irrespective of points)**
- These are sometimes called [minimum entry requirements or matriculation](#).
- Qualifax.ie/careersportal.ie or individual college websites (if clear on what you would like to study)

NUI (UCD, Maynooth University, UCC, NUIG, RCSI, NCAD):

- Six subjects, minimum of two Higher Level H5/50%+ (or higher)
- Pass in English, Irish (unless exempt)
- **Third language needed for many courses** (this can be a third language outside of school)
- Most science, Business & engineering courses excluded
- Maths can be required for Business, Science, and Engineering etc.

- **Trinity College:**

Six subjects, minimum of three H5's
pass in English, Maths and **another language (Irish or MFL)**

- **DCU:**

Six subjects, minimum two subject at H5
English OR Irish AND Maths.

- **Institutes of Technology:**

Have different entry requirements for different courses-check website,
generally don't have a language requirement

ESSENTIAL SUBJECTS

Science Subjects are required for **MOST** science degrees and medical/ health courses.

Honours Engineering Degrees require **Higher** Mathematics.

H4 (or higher) in Honours Irish is required for Primary Teaching.

Chemistry required for a lot of Pharmacy, Veterinary Medicine, Dietetics courses

SOME COURSES THAT NEED A SCIENCE SUBJECT

Science

Some Engineering courses

Medicine (see college websites)

TCD – 2 Science

UCC – Chemistry **and** biology or Physics

UCD- 1 Science

RCSI – 2 sciences

NUIG -1/ 2 science depending on course

Dentistry*

Veterinary*

Pharmacy*

Physiotherapy

Radiography

Nursing

Occupational Therapy

Speech Therapy

Sports Science

Dietetics*

Optometry

* = Chemistry needed (plus another science in some courses)

OPTION SUBJECTS - DEPENDING ON DEMAND EXPRESSED BY STUDENTS:

LANGUAGES

Spanish

French

Chinese

SCIENCES

Biology

Chemistry

Physics

DEPENDING ON DEMAND EXPRESSED BY STUDENTS:

Business

- Business
- Accounting
- Economics

Social Studies

- History
- Geography
- Classics
- Politics and Society

Artistic & Creative

- Art
- Music

APPLIED SCIENCES/TECHNOLOGY

DEPENDING ON DEMAND EXPRESSED BY STUDENTS:

- Home Economics
- Engineering
- Construction Studies
- Technology
- Computer Science
- Applied Maths
- Physical Education



**USING CAREERSPORTAL.IE
TO EXAMINE ENTRY
REQUIREMENTS FOR
COURSES**

Log on to careersportal.ie

IN THE COURSES BOX SEARCH FOR A CAREER YOU MIGHT LIKE IN THE FUTURE E.G GAME (GAME DESIGN) & CLICK SEARCH

- Don't Filter by college

The screenshot shows a navigation bar with two tabs: "START HERE!" and "MORE INFO". Below this is a row of five tabs: "Courses", "Career Profiles", "Apprenticeships", "Career Sectors", and "Site Search". The "Courses" tab is selected and circled in red. Below the tabs is a search interface with a text input field containing the word "Game", a dropdown menu with the text "by College here..." and a checkmark, and a dark blue button labeled "SEARCH NOW" which is also circled in red.

Filter by:


Clear All

Course Name or Code

clear

Game

Example: "ani" will find animal and mechanical.

My favourites 

Course Type

PLC (Further Education)

CAO (Higher Education)

Direct Entry (Higher Education)

Apprenticeship Courses

Employment Courses

Course Level

Level 9

Level 8

Level 7

Level 6

Level 5

Level 4 or less

Career Sectors

▼ Agriculture, Animals & Food

▼ STEM, Environment & Construction

▼ Medical, Wellbeing & Sport























Found 40 courses

Sort by

Course Title

Print 

Game 

	Code	Course Title	College	Level	Points 2019	QQI Link?	Years	
	PLC 5M5048 ME	3D Game Design	Bray Institute of Further Education	5			1 Year	▼
	PLC 5M0529	Computer Game Design & Development	St. John's Central College	5			1 Year	▼
	PLC 5M0529	Computer Game Design & Development (Clash Road)	Kerry College	5			1 Year	▼
	PLC 6M20496	Computer Game Design & Development - Advanced	St. John's Central College	6			1 Year	▼
	PLC 5M5048 DLO	Computer Games & Interactive Entertainment Development	Ballyfermot College of Further Education	5			1 Year	▼
	PLC 5M5048 CGDX	Computer Games Design	Limerick College of Further Education	5			1 Year	▼
	PLC 5M5048 CI061CU	Computer Games Design	Cavan Institute	5			1 Year	▼
	CAO LY707	Computer Games Development	Letterkenny Institute of Technology - LYIT	7	234 ▲		3 Years	▼
	CAO CW208	Computer Games Development	Institute of Technology Carlow	8	281 ▲		4 Years	▼
	PLC 6M20496 CI062CL	Computer Games Development (Year 2)	Cavan Institute	6			1 Year	▼
	PLC 5M0529 CGPX	Computer Games Programming	Limerick College of Further Education	5			1 Year	▼

**THE SEARCH
WILL FIND
ALL COURSES
THAT
MENTION
YOUR KEY
WORD.
YOU WILL SEE
LEVELS AND
POINTS**

Region

- Dublin
- Connacht
- Leinster *(excl Dublin)*
- Munster
- Ulster

**YOU CAN FILTER BY
LEVEL AND LOCATION**

Course Type

- PLC (Further Education)
- CAO (Higher Education)
- Direct Entry (Higher Education)
- Apprenticeship Courses
- Employment Courses

Course Level

- Level 9
- Level 8
- Level 7
- Level 6
- Level 5
- Level 4 or less

game

Example: "ani" will find animal and mechanical.

My favourites ★

Course Type clear

PLC (Further Education)
 CAO (Higher Education)
 Direct Entry (Higher Education)
 Apprenticeship Courses
 Employment Courses

Course Level

Level 9
 Level 8
 Level 7
 Level 6
 Level 5
 Level 4 or less

Career Sectors

- ▼ Agriculture, Animals & Food
- ▼ STEM, Environment & Construction
- ▼ Medical, Wellbeing & Sport
- ▼ Creative Arts, Fashion & Media
- ▼ Government, Law & Education
- ▼ Accountancy, Finance & Insurance

Code	Course Title	College	Level	Points 2019	QQI Link?	Years
★ CAO LY707	Computer Games Development	Letterkenny Institute of Technology - LYIT	7	234 ▲	🔗	3 Years
★ CAO CW208	Computer Games Development	Institute of Technology Carlow	8	281 ▲	🔗	4 Years
★ CAO LC418	Computing - Games Design and Development (Thurles)	Limerick Institute of Technology - LIT	8	271 ▲	🔗	4 Years
★ CAO SG131	Computing - Games Development	Institute of Technology Sligo	7	168 ▼	🔗	3 Years
★ CAO DK820	Computing in Games Development	Dundalk Institute of Technology - DKIT	8	325 ▲	🔗	4 Years
★ CAO TL711	Computing with Games Development	Institute of Technology Tralee	7	202 ▼	🔗	3 Years
★ CAO TL811	Computing with Games Development	Institute of Technology Tralee	8	309 ▼	🔗	4 Years
★ CAO LC502	Game Art and Design (Clonmel)	Limerick Institute of Technology - LIT	8	838 # ▲	🔗	4 Years
★ CAO TU984	Game Design	TU Dublin - City Campus	8	403 ▲	🔗	4 Years
★ CAO WD001 GAD	Game Development	Waterford Institute of Technology - WIT	8	279 ▼	🔗	4 Years
★ CAO GC460	Music Production For Games	Pulse College	6	#		1 Year
★ CAO GC460	Music Production For Games	Griffith College Dublin	6	#		1 Year
★ CAO AL801	Software Design (Game Development or Cloud Computing)	Athlone Institute of Technology - AIT	8	304 ▲	🔗	4 Years

I WILL EXAMINE GAME DESIGN IN TU LEVEL 8

CLICK ON THE COURSE TITLE

THIS WILL BRING UP A COURSE SUMMARY AND ENTRY REQUIREMENTS

10/207 12/207 QQI #8 Major 4 years Full time 400 110

Course Summary

Entry Requirements


QQI FET/FETAC Links

The Student

Career Progression


Further Research

Course Summary



School of Media Undergraduate Courses

Copy link



School of Media

Students will develop an in-depth understanding of the concepts, theories and models pertaining to the study of game design and the manner in which they can be applied to both entertainment and non-entertainment uses.

They will have a good understanding of game programming, production, audio design and testing. They will have an ability to analyse and determine the appropriate approach to game

Entry Requirements

Course Summary

Entry Requirements

QQI FET/FETAC Links

The Student

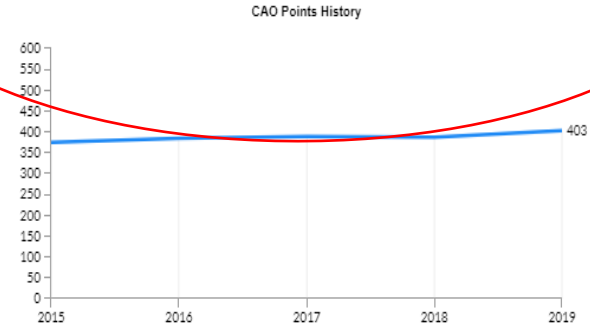
Career Progression

Further Research

Points History	Minimum Subjects
403 ^A	2 H5 & 4 O6/H7

✓ O4/H7 IN English OR Irish

✓ O4/H7 IN Maths



CAO Points History

To view Mature Entry requirements, or alternative requirements, please visit [Qualifax](#) or the [Colleges' website](#)

If you believe the data above to be incorrect, please let us know at info@careersportal.ie - thank you.

The Seven Deadly Sins Of Subject Choice



WHEN CHOOSING SUBJECTS

What subjects do you enjoy?

What subjects are you good at?

Do you need a particular subject for a future college course or career?

- Do what comes naturally:
- 1. It is easier and more comfortable for you
- 2. Why make life more difficult?



TO KEEP OPTIONS OPEN

- Take at least one science subject
- Keep your modern language
- Take 2 other subjects that you are good at, or that you enjoy and will do well at.

N.B. - Points restrict entry to many courses more than subjects do.



USING VSWARE TO INPUT SUBJECTS

Your Parents/Guardians need to:

- Log-on to **VSware using the Parent Log-on details**. (Student Log-on details will not allow access to option choices)
- Select '**Student Options**'.
- Tap on the **first box and select your first-choice** subject from the drop-down list.
- Continue and select your second choice, third choice...all the way to your eighth choice. It is very important that you **select the subjects in order of preference** i.e. the subject you want most should be No. 1, the second most important subject to you should be No. 2 etc.

MORE INFORMATION



Subject choices only required for those entering 5th year



Talk to your teachers/ask questions



use careersportal.ie



Subject Choice – walk in clinic at lunchtime in F30 (across from music room) on Monday 11th March

SUBJECT CHOICE

First Year 2021/22



**SUBJECT
OPTIONS
KISHOGE
COMMUNITY
COLLEGE 2024**



LC MUSIC

Content:

1. Composition x2 Q's
2. Listening – x4 Q's
3. Performance – 25%
4. Music Technology – 25%

Assessment:

- Leaving Cert Exam June – 50% - Listening & Composition
- Performance March/April – 50%

Requirements:

- Junior Cert Music

Differences between JC and SC

- Content similar to JC but pieces studied in much more depth
- Lots of performing in class

Career related areas:

- Musician/Performer, producer, radio, teacher, songwriting, music therapy



Economics

Content:

- 2 main strands – Macroeconomics (the global setting) and Microeconomics (the national perspective)
- Broken down in to 5 smaller strands:
 - What is economics about?
 - How are economic decisions made?
 - What can markets do?
 - What is the relationship between policy and economic performance?
 - How is the economy influenced by international economics?

Assessment:

- Assessed at higher and ordinary level.
- Short questions – 20%
- Long questions – 60%
- Research project completed ahead of the exam 20% on an area of your choice.
- **Written paper – 2.5 hours**

Requirements:

- No requirements but having a good understanding of the "Our Economy" chapters from JC Business Studies is very helpful.
- Interest in current affairs is helpful.

Differences between JC and SC

- More in depth study of economic concepts like supply and demand, economic growth, fiscal and monetary policy.

Career related areas:

Economist, Politics, Risk Management – Financial, Political, Investment and Data Analyst



Leaving Cert: Business

Content

Unit1: People in Business

Unit2: Enterprise

Unit3: Management 1

Unit4: Management 3

Unit 5: Business in Action

Unit 6: Domestic Environment

Unit 7: International Environment

Assessment: 100% exam

Requirements: A lot of content. Note taking is essential, not essay based. Answers should follow a State, Explain and a real life example layout. An interest in current affairs is beneficial and if you are able to apply real life examples to theory that we cover.

Similarities/differences to JC

Very similar to JC but studied in greater detail. You **do not** need to have studied business for JC

NO ACCOUNTS.

Careers

Marketing, International Marketing, Business Management, Sales, Setting up your business, Banking and investment, Public Relations, Retail and so much more.

Any Questions

See Conor in F18 anytime for a chat! 😊



Construction Studies

Content: 2 Practicals (25% + 25%) Theory 50%

- Building Preparation
- Substructure, Superstructure
- Services
- Practical Based Skills

Assessment:

- Design: 25% Practical project, create a piece of furniture
- Skills: 25% day Exam, 4 hour exam that you build on the day
- Theory: 50% 5 questions of which 1 has to be a technical drawing question

Requirements:

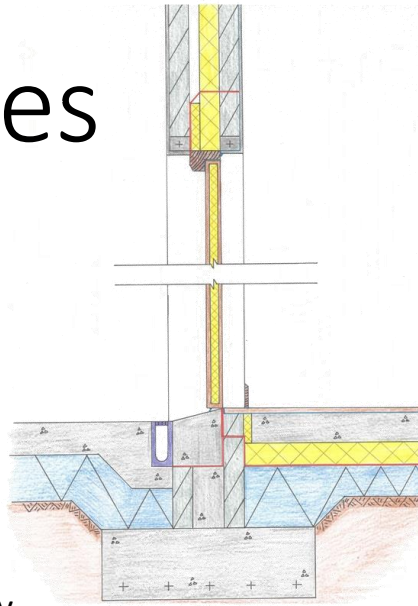
- Practical Skills – Previous T4 experience is an advantage
- Sketching – Majority of questions have a sketching Element
- An interest in the subject is vital

Differences between JC and SC

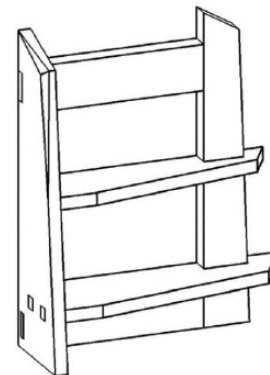
- Practical Skills are similar but the content is all new.
- Day Exam

Career related areas:

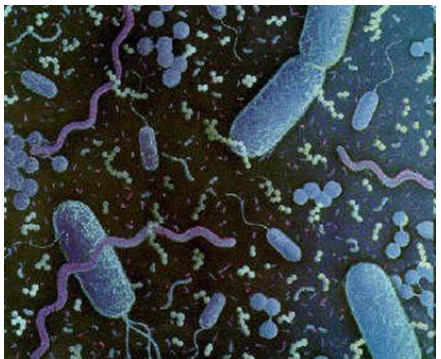
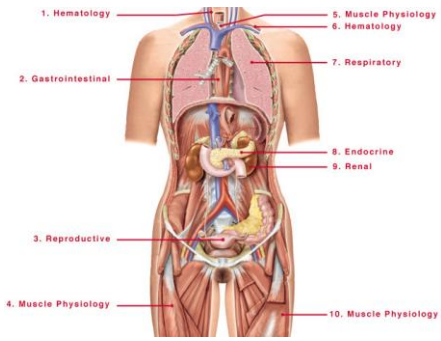
- Engineering (most areas), Housing development, Surveying, Construction, Carpentry, Plumbing, Architecture, Interior Design, Furniture Design, Product Design....



2011 DAY PRACTICAL EXAM



Biology



Content: 3 Units

- The Study of Life
- The Cell
- The Organism

Assessment:

- Leaving Cert exam worth 100% (3 hours long)
- Three Sections on the Paper (Short Qs, Experiment Qs, Long Qs)

Requirements:

- A good ability in language – lots of key words, definitions and note taking
- Memory
- An interest in the subject is highly beneficial

Differences between JC and SC

- Content similar to JC Biology but studied in much more depth
- 42 Chapters. Approx. 150 definitions.
- Just 22 Experiments (4 food tests, 4 enzyme exp's – just 14 experiments left in the remaining 40 chapters)
- Studied at Higher and Ordinary levels – Same exam format and same chapters however

Career related areas:

- Science and Research, Doctor, Nurse, Pharmacologist, Farmer, Tree Surgeon, Ecologist, Athlete, Nutritionist, Personal Trainer, Engineering, Paramedic

Politics & Society

Content: 4 Strands

- Power and Decision Making
- Active Citizenship
- Human Rights and Responsibilities
- Globalisation and Localisation

Assessment:

- Report on a citizenship project worth 20%- Can be completed individually or in a group.
- Leaving Cert exam worth 80% - Short Qs, Data- Based Qs and Discursive essays.

Requirements:

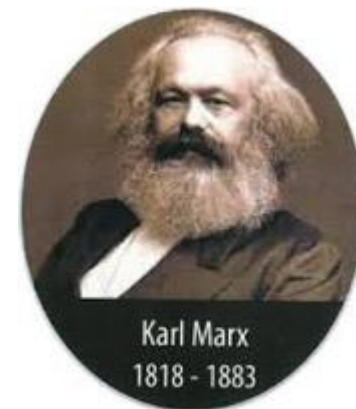
- An interest in the subject is vital.
- Essay based subject (Higher level English an advantage).
- Ordinary level essays are shorter.
- Higher Level examines several theorists and draws on theorists to develop arguments.

Links between JC and SC

- Similar to JC CSPE but studied in much more depth.
- Draws on elements from our Ethical Ed curriculum.

Career related areas:

- Sociology, political studies, philosophy and anthropology, as well as social studies programmes.
- Will be of value to learners throughout their lives, in their engagement with political processes, and in decisions they will make in their work and personal lives.



French/Spanish

Content:

- Similar topics to Junior Cert but more in depth and more tenses
- Students are expected to speak in the foreign language and understand the class taught through the target language. (Get on top of your basics now).

Assessment:

Oral: French HL-25%. OL-20%.

Spanish HL and OL-25%.

Listening: French HL-20%. OL-25%.

Spanish HL and OL-20%.

Reading and Writing: French and Spanish HL and OL-25%

Requirements:

- A basic requirement for Higher Level for Leaving Cert is a minimum C grade at Junior Cert. (Exceptions)

Differences between JC and SC

- Similar topics to Junior Cert but will also deal with current affairs and media in France and Spain. Eg. Catalan conflict in Spain, terrorism in France, climate change, refugees in Europe, women in sport etc.

Career related areas:

- Marketing
- Sales
- Business Studies
- Translation
- Hospitality
- Teaching
- IT industry and programming



Geography

Content: 4 Topics

1. **Core Units** - Physical, Regional, Skills and Investigation
2. **Elective Unit** - Patterns and Processes in Human Environment
3. **Optional Unit** – Ecology (Higher Level only)

Assessment:

Terminal Examination 80% of total marks (June 2022). 20% short Qs

80% essay writing (HL – 20% guaranteed essay every year)

Geographical Investigation 20% of total marks. Booklet created in advance of the exam. Full day trip.

Homework consists of note taking, diagrams, and essays. Essays are written in bullet point format (18 for HL, 13 for OL).

Requirements:

Essay based subject – higher level English an advantage

Ordinary level essays are shorter

Good attendance is pivotal for geography (each class typically maintains a new topics/aspect)

Differences between JC and SC

Content similar to JC but studied in much more depth. Will also learn about ecology.

Research topic submitted before the LC – can gain up to 20% before you even sit the exam

Career related areas:

Cartographer, Climatologist, Commercial/residential surveyor,

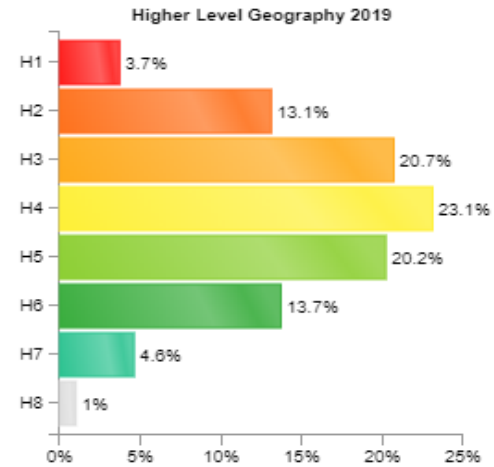
Environmental consultant, Geographical information systems officer,

Planning and development surveyor, Secondary school teacher, Town planner,

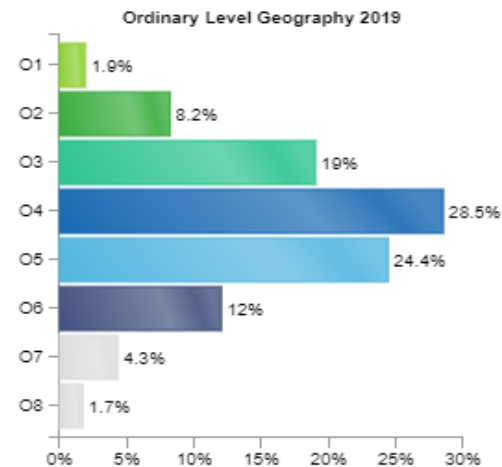
Sustainability consultant, Transport planner.

Marks Distribution 2019:

Listed below are the percentage distributions of marks from the 19983 students who sat the Higher Level Geography exam in 2019.



Listed below are the percentage distributions of marks from the 4139 students who sat the Ordinary Level Geography exam in 2019.



History

Content: 4 Topics

- **Ireland 1912-1949** (Home Rule, 1916, Civil War etc)
- **Northern Ireland 1949-1989** (Civil Rights, Politics)
- **Europe 1919-1945** (WW2, Dictatorships etc)
- **USA and the Wider World 1945-1989** (Vietnam War, Cuban Missile Crisis etc)

Assessment:

- **Research Topic** submitted before the exam worth 20%
- **E.G.-** Assassination of Malcom X, Munich Air Disaster, Muhammad Ali, Blitzkrieg tactics etc.
- **Leaving Cert exam worth 80%** - 3 essays and a document question relating to topics
- **Homework** – Essay and Document based

Requirements:

- An interest in the subject is vital
- Good attendance is pivotal for history

Differences between JC and SC

- Focus is on 20th Century history which is studied in much more depth
- Research topic submitted before the LC – can gain up to 20% before you even sit the exam

Career related areas:

- Journalism, politics, law, public administration, state companies, local authorities, teaching, lecturing and archaeology.
- History will help at university for essay writing and using and referencing sources



Computer Science

Content: 3 Areas

- Practices and Principles & Core Concepts (Theory)
- Computer Science in Practice (Practical)

Assessment:

- Written exam 70%
- Project work 30%

Requirements:

- Manage Expectations – Its not going in to play video games!
- Good level of computer literacy, you can save a file, find a file etc!
- Willingness to problem solve and persist to find a solution to a problem.

Differences between JC and SC

- No requirement to have done coding at JC.
- Some familiar topics from JC (such as Python and Websites) but studied in much more depth
- New material such as data analytics and databases

Career related areas:

- Technology, Medicine, Business, Marketing, Teaching, Farming, Design...look around you, technology is everywhere!

The worlds largest producer of films...owns no cinemas or studios



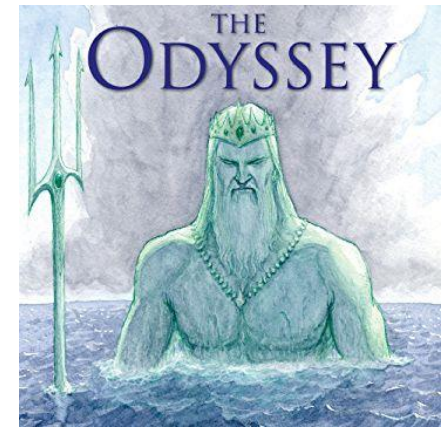
The worlds largest taxi company....owns no cars



The worlds largest hotel group...owns no hotels

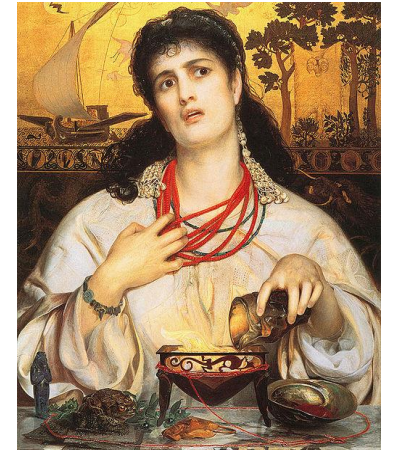


Classics



Content: 4 main topics

- **The Epics:** *The Odyssey* and *The Aeneid* (Tales of heroes, gods/goddesses and their adventures).
- **Greek Tragedy and Roman Spectacle:** *Medea* and *Oedipus Rex* (Tragic plays; big themes of fate, revenge, gender roles). Compare this type of entertainment to the gladiator games of the Colosseum.
- **Gods and Mortals:** The Greek and Roman gods, their stories, philosophy on life and death.
- **Alexander the Great:** Biography of his life including his relationships, personality and military career.



Assessment

- Written exam worth 80% (HL and OL, 2 essays and 2 picture/document Qs).
- Research Study worth 20% (your own research carried out during school time).

Requirements/Skills

- Lots of reading and writing, critical thinking, imagination, interest in human psychology.
- A slight advantage to have studied it at JC level but not essential.

Careers

- Can study at Third level at most universities.
- Careers in law, business, psychology, teaching/lecturing, journalism, publishing etc.



PHYSICS

Content

- Mechanics (energy, forces, motion)
- Heat and Temperature
- Waves and Sound
- Light
- Electricity
- Particle physics

Assessment

- Written Leaving Cert exam is worth 100%
- Homework – based on exam questions and writing up practical work

Requirements

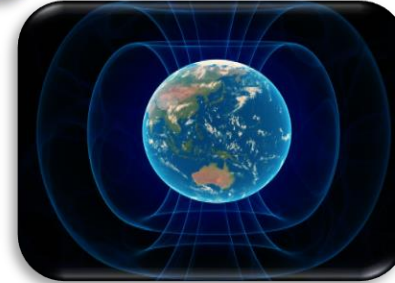
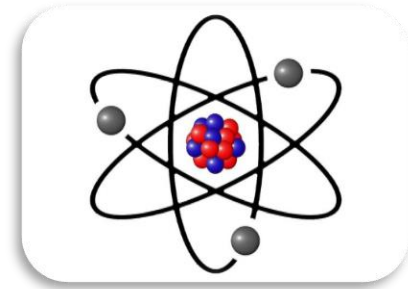
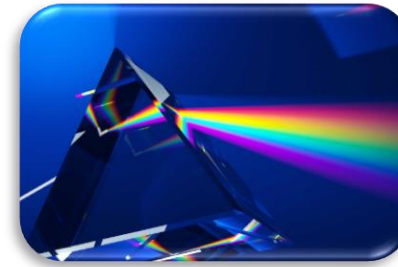
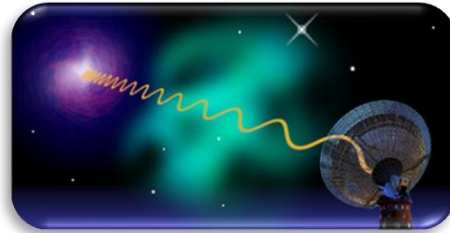
- Maths based subject – both higher and ordinary level require an affinity for maths
- An interest in understanding the world around you
- Suits logical thinkers

Differences between JC and SC

- Maths is used in almost every lesson
- Several new topics such as heat, sound, light, particle physics etc.

Careers

- All employers value the skills that physics develops: an ability to grasp things quickly, a determination to find logical answers, along with problem-solving, analytical, and mathematical skills
- Studying physics is an excellent way of keeping your options open.
- Renewable energy manager, Material scientist, Satellite engineer, Weather forecaster, Mechanical Engineer, TV producer.....



Engineering

Content -

- Design, Manufacturing, Electronics, Mechanisms.
- Machining, Welding, Metrology, Polymers,
- Material Science. Thermal Equilibrium Diagrams.

Requirements -

- A genuine interest in Engineering and a willingness to work hard and take on difficult new challenges.
- Be prepared to work on projects outside the normal school timetable/schedule.
- Possess a '**PROBLEM SOLVING**' attitude to tasks.

Differences J.C. to L.C. -

- All students take a six-hour practical examination.
- A Project Folio - relating to the engineering project.
- Some content is similar to JC with the addition of more complexed areas of engineering relating to materials testing and welding.

Assessment -

<u>Project & Folio</u>	<u>Practical</u>	<u>Theory Exam</u>
Sept to March	April/May	June
Folio 7%	Common Level	HL or OL
Project 18%	25%	50%
20 weeks	<u>6hrs</u>	3hrs HL, 2.5 hrs OL

Theory exam topics:

Mechanisms, Welding, Materials Testing, Polymers, Iron Carbon Diagrams, Equilibrium Diagrams, Machining and a Special Topic

Related Areas -

Careers

- Mechanical, Electronic. Automotive and Aeronautical Engineering.
- Industrial Manufacture, Bio-Mechanical, Bio-Chemical or Environmental Engineering.
- Product Design

Cross Curricular Subjects

- Physics, Technology, Applied Maths, Construction Studies, D.C.G., Computer Science

TECHNOLOGY

Who does this subject appeal to ?

If you are **creative**, like to **make things with mechanisms and electronics**, learn by doing and experimenting with **prototypes**.

EXAMINATION REQUIREMENTS

Project

Runs from September to April.

Based on a thematic brief.

Divided into two parts, Artefact and Folio write up.

HL worth 50% (25% artefact + 25% Folio)

OL worth 50% (30% artefact + 20% Folio)

State Exams

HL 3hr Exam

50% Exam

OL 2.5hr Exam

50% Exam

Core Content -

DESIGN, MATERIALS and PRODUCTION and QUALITY MANAGEMENT, COMPUTER MODELING (LASER CUT AND 3D PRINTING), COMMUNICATION AND GRAPHIC MEDIA , ELECTRONICS AND MECHANISMS

Optional Content -

- ELECTRONICS AND CONTROL
- INFORMATION AND COMMUNICATIONS TECHNOLOGY (ICT)
- MANUFACTURING SYSTEMS

Careers

Product Design

Aeronautical and Automotive Development

Product Research and Innovation

Electronics Development

Technological Medical Research

Computer and Chip Design

Cross Curricular Subjects

- **Physics, Technology, Applied Maths, Construction Studies, Computer Science, Art, Engineering**

Applied Maths

Content: Split into 4 different areas all based around mathematical modelling

- Modelling Process
- Modelling Networks and graphs
- Modeling with Kinematics and Dynamics
- Modelling Change

Requirements:

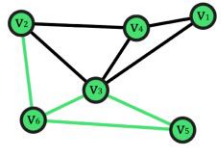
An interest in maths is required, however HL Maths is recommended.

Works well with LC physics too.

Assessment:

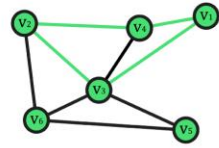
- Written exam - 80%
- Modelling Project - 20%

Walk



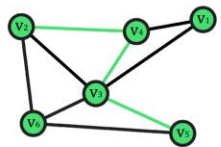
$$w = v_3\{v_3, v_5\}v_5\{v_5, v_6\}v_6\{v_6, v_2\}v_2\{v_2, v_4\}v_4\{v_4, v_1\}v_1\{v_1, v_3\}v_3$$

Cycle



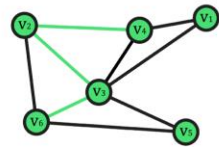
$$c = v_2\{v_2, v_4\}v_4\{v_4, v_1\}v_1\{v_1, v_3\}v_3\{v_3, v_5\}v_5\{v_5, v_2\}v_2$$

Trail



$$t = v_2\{v_2, v_4\}v_4\{v_4, v_1\}v_1\{v_1, v_3\}v_3\{v_3, v_5\}v_5$$

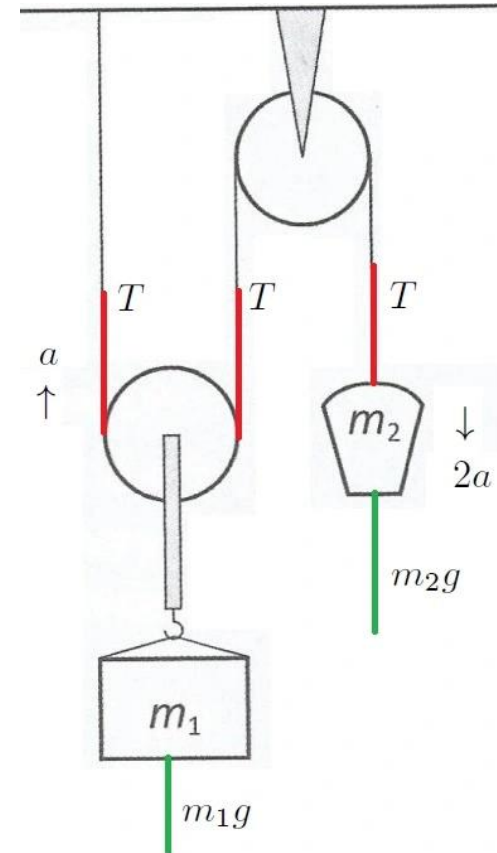
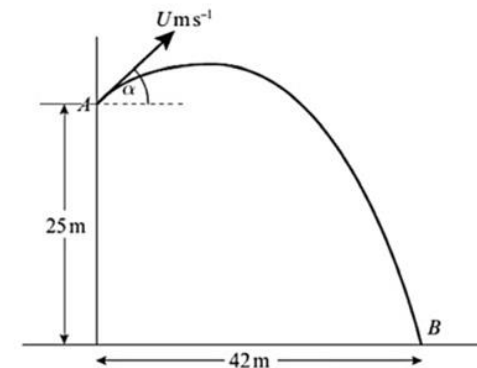
Path



$$p = v_6\{v_6, v_3\}v_3\{v_3, v_2\}v_2\{v_2, v_4\}v_4$$

Careers:

- Engineering & Technology - based jobs
- Useful for college courses in Physics, Maths, Computer science, Computational thinking



Leaving Certificate Physical Education (PE)

Content – 2 strands

- Towards optimum performance - Physical and psychological demands on performance, planning for optimum performance, learning and improving skill technique.
- Contemporary issues in physical activity - ethics and fair play, technology, media and sport, gender and physical activity, etc

Requirements:

- Science
- Decent level of practical ability
- Interest in the subject is vital

Difference between JC and LC:

- No JC exam for PE, only CBA
- There is a lot of theory/written work and analysing performance

Career related areas:

- Sports related areas, Physiotherapist, PE teacher, Sports psychology, Sports science, Coaching

**Written
exam – 50%**

**Practical
– 30%**

**Project
- 20%**

Assessment



L.C. Chemistry

Content:

1. Atomic structure
2. Volumetric analysis
3. Organic chemistry
4. Stoichiometry
5. Other
6. 28 mandatory experiments

Assessment:

80% written exam

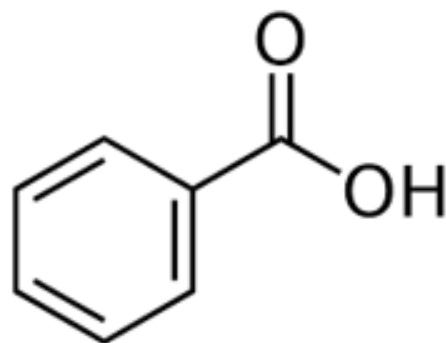
Section A- 3 experiment questions

Section B- 8 theory/calculation questions

Answer: 8 questions in total

20% Second Component Assessment

	Description	Marks
Laboratory notebook	reports on mandatory activities authenticated by teacher	5%
Practical examination	short tasks; learners record data, observations and analysis on a task sheet which is marked externally	15%



Fe = 4

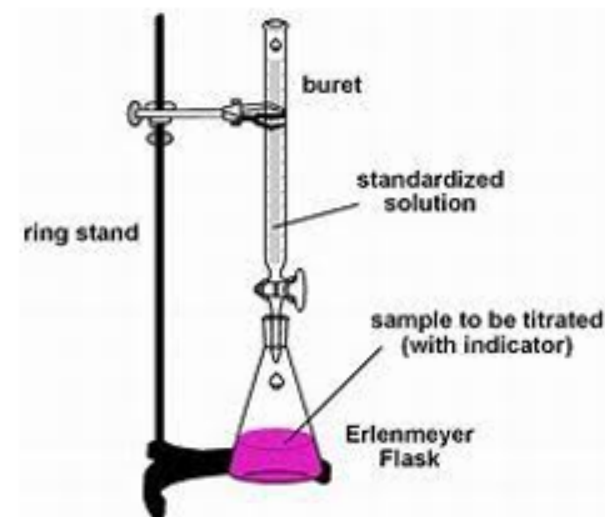
O = 6

C = 3

Fe = 4

O = 6

C = 3



Requirements:

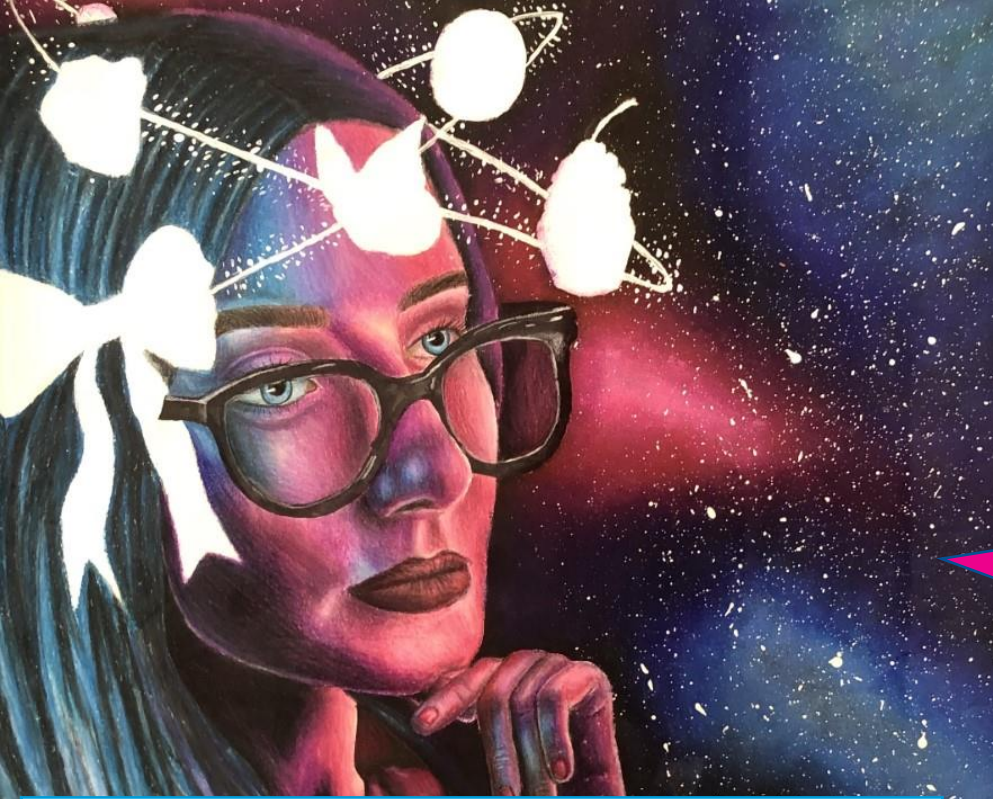
- Minimum of OL Maths
- Strong work ethic
- Dedication to improving mathematical skills
- Interest in studying science at 3rd level

Differences between JC and SC:

- Cover approx. 5% at J.C.
- Big jump in detail and complexity

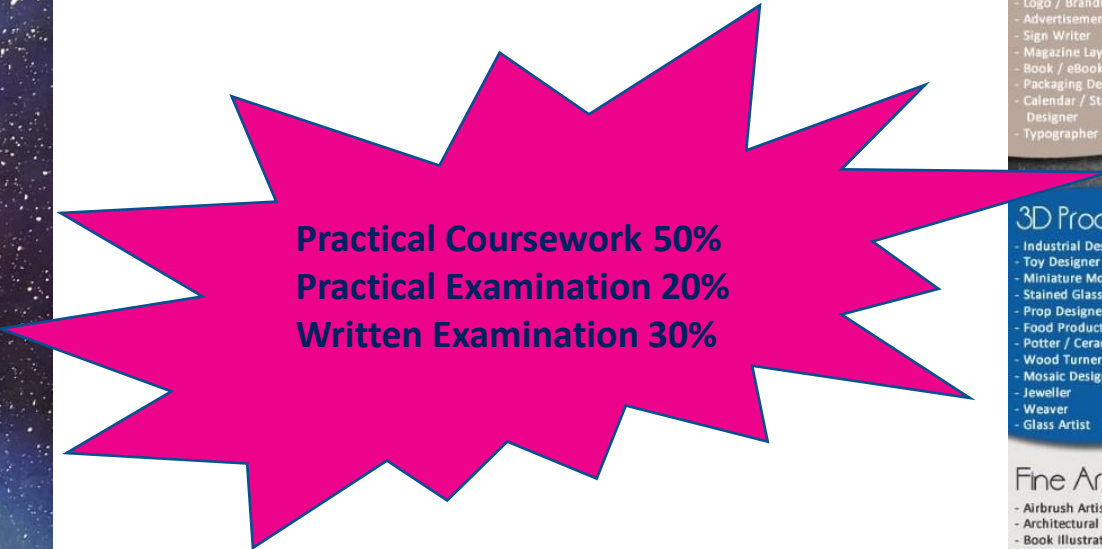
Career related areas:

- Any science/medical based career
- Study chemistry in Year 1 of college



Leaving Cert Art 2024

Brand New Curriculum 😊



Practical Coursework 50%
Practical Examination 20%
Written Examination 30%

180 hours of class contact time

- More marks going for Practical Art
- More focus on project work and practical art than theory
- More options to focus on areas of strength in practical projects
- Complete change in the approach to Art History – It will now be called Visual Culture

Leaving Cert Art is a balance between knowledge and skills. Students get to create pieces of art that play to their strengths. The coursework is very broad to allow for various types of mediums including digital technology.

Art enables learners to develop many skills that are conceptual and practical. It promotes creative and critical thinking and supports the development of problem-solving skills.

LC Art is a subject where the students get to explore their imagination, style and creativity. 70% is project based so this creative experience supports the students in all career paths. For example: Architecture, graphic design, interior design, fine art, town planning, make up art, fashion design, animation, carpentry, set design...

- Writing / Analytical**
 - Art Curriculum Writer
 - Art Historian
 - Art Critic
 - Arts Administrator
 - Arts and Cultural Planner
 - Website Owner / Blogger
 - Graphic Novel Author
- Fashion / Textiles**
 - Fibre Artist
 - Accessory Designer (Shoes / Bags / Hats)
 - Dressmaker
 - Embroiderer
 - Fashion Consultant
 - Fashion Designer / Sports Apparel Designer
 - Fashion Merchandising
 - Pattern Maker
 - Costume Designer
 - Quilt / Rug / Linen Designer
 - Fabric / Textile Designer
 - T-Shirt Designer
- Graphic Design**
 - Advertising Director
 - Logo / Branding Designer
 - Advertisement Designer
 - Sign Writer
 - Magazine Layout Designer
 - Book / eBook Designer
 - Packaging Designer
 - Calendar / Stationery / Wallpaper Designer
 - Typographer
- Spatial Design**
 - Architect
 - Landscape Architect
 - Urban Designer / Town Planner
 - Playground / Theme Park / Sports Arena / Golf Course Designer
 - Interior Designer / Decorator
 - Set / Stage Design
- Digital / Multi-Media**
 - Animator
 - Concept Artist
 - Digital Illustrator
 - Digital 3D Modeller
 - Web Designer
 - iPhone / Android App Designer
 - Television / Film Producer
 - Documentary Filmmaker
 - Camera Operator
 - Film Editor
 - Special Effects Designer
 - Video Game Design
 - YouTube Video Creator
- Photography**
 - Advertising Photographer
 - Fashion Photographer
 - Photo Journalist
 - Food Photographer
 - Portrait Photographer
 - Underwater Photographer
 - Wedding Photographer
 - Stock Photo Seller
 - Director of Photography
- Fine Art**
 - Airbrush Artist / Spray Painter
 - Architectural Illustrator
 - Book Illustrator
 - Graphic Illustrator
 - Technical / Textbook Illustrator
 - Story Board Illustrator
 - Cartoonist / Caricaturist
 - Commercial Artist
 - Fine Artist (Painter)
 - Printmaker / Screen Printer
 - Courtroom Artist
 - Art Conservationist
 - Special Effects Makeup
 - Mural Artist
 - Tattoo Artist
- Arranging / Display**
 - Food Stylist
 - Floral Arranger
 - Display and Exhibition Planner
 - Art / Design / Colour Consultant
 - Gallery Owner / Assistant
 - Museum Curator
 - Personal Stylist
 - Picture Framer
 - Online Curator
- Organisation / People Management**
 - Art School Director
 - Primary / Elementary Teacher
 - Middle / High School Art Teacher
 - University Lecturer / Professor
 - Private Art Instructor
 - Art Therapist
 - Art Dealer
 - Artist Agent
 - Art Supplies Retailer
- Any Other Career!**

Art can be great preparation for any career that requires fine motor skills, presentation skills, an eye for aesthetics and creative thinking!



SECTION 1 (120 Marks)
Answer **Question 1(A)** OR **1(B)** OR any **TWO** other questions

1. Answer (A) or (B)

(A) Sole Trader – Final Accounts

The following trial balance was extracted from the books of V. Leahy on 31/12/2022:

	€	€
Patents (incorporating 2 months investment income)	48,800	
Land and buildings	850,000	
Accumulated depreciation – land and buildings		105,000
Delivery vans	480,000	
Accumulated depreciation – delivery vans		70,000
Equipment at cost	153,500	
Discount (net)		7,700
4% Investments acquired on 01/07/2022	180,000	
Stock 01/01/2022	70,700	
Sales		1,848,900
Purchases	1,193,500	
Salaries and general expenses (incorporating suspense)	136,400	
Advertising	16,000	
Investment income received		2,200
Drawings	45,000	
Rates	42,800	
PAYE, PRSI & USC		4,700
VAT		11,900
Bank		53,600
3% Fixed mortgage (including €50,000 issued on 01/06/2022)		320,000
Mortgage interest paid for the first 4 months	2,300	
Debtors and creditors	67,700	98,600
Bad debts provision		2,100
Capital		<u>762,000</u>
	<u>3,286,700</u>	<u>3,286,700</u>

The following information and instructions are to be taken into account:

- (i) Stock at cost on 31/12/2022 was €82,600. This figure includes damaged stock which cost €5,800 but which now has a net realisable value of 75% of cost.
- (ii) Goods purchased on credit from a supplier were in transit on 31/12/2022. The invoice for these goods had been received for €15,375 which included VAT at 23%. No record was made in the books in respect of this transaction.
- (iii) Provide for depreciation on delivery vans at the annual rate of 20% of cost from the date of purchase to the date of sale.
Note: On 30/09/2022 a delivery van which had cost €35,000 on 30/06/2018 was traded in against a new van which cost €80,000. An allowance of €3,000 was given on the old delivery van. The bank transfer for the net amount of this transaction was entered correctly in the bank account but was incorrectly treated as a purchase of trading stock. These were the only entries made in the books in respect of these transactions.
- (iv) The suspense figure arises as a result of the incorrect figure for mortgage interest (although the correct entry had been made in the bank account) and discount received of €600 entered only in the discount account.
- (v) Patents (incorporating 2 months investment income) are being written off over 10 years which commenced in 2020.
- (vi) Goods taken by Leahy for his own personal use during the year were not recorded. The goods had a retail value of €3,600 which is cost plus 20%.
- (vii) The company revalued the land and buildings at €950,000 on 01/01/2022. The land element of this new value is €200,000. The revaluation has yet to be reflected in the accounts. Buildings are to be depreciated at the rate of 2% of cost per annum.
- (viii) The figure for the bank account in the trial balance had been taken from the firm's own records. However, a bank statement dated 31/12/2022 has arrived showing a bank overdraft of €50,300. A comparison of the bank account and the bank statement has revealed the following discrepancies:
 1. A credit transfer for €1,500 had been received on 31/12/2022 in respect of a debt of €1,700 previously written off as bad. The debtor has agreed to pay the remainder within 2 months. No entry was made in the books to record this transaction.
 2. A cheque for €1,800 issued to a director had not yet been presented for payment.
- (ix) Provision should be made for the following:
 1. Investment income due and mortgage interest due.
(Note: 20% of mortgage interest for the year refers to the private section of the building.)
 2. Provision for bad debts to be adjusted to 6% of debtors.
 3. Equipment to be depreciated at 10% of cost per annum.

Required:

- (a) Prepare a trading and profit and loss account for the year ended 31/12/2022. (75)
 - (b) Prepare a balance sheet as at 31/12/2022. (45)
- (120 marks)**

types of businesses.

concepts
solving (Algebra)

complete the required

Chinese



Content:

- Pre-A1/A1 levels of the CEFR(Common European Framework of Reference).
- Chinese basic language and Chinese culture
- Developing an appreciation of cultural diversity and the value of linguistic abilities to understand, celebrate and make connections with other cultures

Assessment:

- Aural, Oral and written exams
- Assessment will be offered at both Higher and Ordinary levels.

Requirements:

- Open to all students and you can start Chinese in 5th year with no previous knowledge of the language, but students of Chinese heritage should seriously consider it.
- Students who have studied Chinese in Kishoge should consider it.