

MP5 Careers Workbook 2022-2023

Starting Date:

Completed and returned to tutor on:

I now have an electronic *and* a paper career folder (Tick box)



Name Student:

Name Tutor: **Tutor group:**

MP5 to DP1 Subject Choices

MP5 is an important year. This year you will complete the Middle Years Programme which includes the Service as Action component and of course the Personal Project.

This year your grades are of importance for the following reasons:

1. To pass the year and gain your MYP certificate
2. To decide what you want to do after MP5. Is it the IB Diploma Programme, or the IB Careers-related programme (CP) or Dutch education (HAVO, VWO, MBO) or are you moving to another country?
3. To meet the promotion criteria and be promoted to the Diploma Programme with your chosen subject package (***you will need to have at least a final grade 5 for the subjects you wish to take at Higher level and at least a final grade 4 for the subjects you wish to take at Standard Level***). For **maths** and the **languages** there are **additional requirements**, and you cannot ignore the **non-chosen subjects!**
4. Universities may ask for your MYP5 grades when you apply. American universities tend to make a conditional offer based not only on your DP grades, but also on the grades you achieved starting with MYP4.

The MP5 careers workbook is in line with the IB MYP Learner Profile. Inquiry, Action and Reflection are key to the assignments in here.

Before you start choosing subjects for the IB Diploma Programme, it is important to have some idea about what you want to do after ISRLO. Your activities for **Service as Action** as well as your **Personal Project**, may point towards your areas of interest.

Don't worry if you don't have a clear idea about future courses – the fact of the matter is that most people don't. If this is the case it is important that enough options are left open to you by choosing your subjects wisely.



Task 1

Interview **an adult** you know about how their career plans changed or didn't change over the years. Write down your notes in the spaces below the questions.

Interview with: (Name interviewee and your relationship with them. For example: Mrs. Brood, my next-door neighbour; Ms van Noord, my aunt. Mr Smith, my grandfather.)

1. What did you want to be when you were still at school? What or who inspired you?

.....
.....

2. Did you finish High School with a Diploma? If the answer is "no", why not? If the answer is "yes", what subjects did you take for your Diploma? What kind of Diploma did you get?

.....
.....

3. What did you do once you left school? Did you continue studying, get a job, get an apprenticeship? How long did you do the job?

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.....
.....

4. And what do you do now? Is it different from the job you did at the start of your career? How long have you been doing this job? If you are retired, what did you do prior to your retirement?

.....
.....
.....

5. What kind of skills would you say you need to be able to be successful at your (last) job?

.....
.....

6. Additional questions/notes:

.....
.....

Task 2:

Now it is time to make an inventory of your **strengths** and **weaknesses**. You may have already done this in MP3 and MP4, but things may have changed, you may have changed.

Answer the following questions honestly:

Which subject(s) do I enjoy most?

.....

Which subject(s) am I really good at?

.....Whic

h subject(s) do I enjoy and find easy?

.....Whi

ch subject(s) cause me the most stress?

.....Is

the stress due to the subject content or any other reasons? (be honest)

.....Whi

ch subject(s) am I least good at?

.....

At this point do you consider continuing with DP or would Intermediate Vocational Education (MBO) or the IB CP fit more with your style of learning? Please note that MBO or IBCP are not “less” than DP. Whatever your choice, it is perfectly fine. Our future will be skills-based!



Activity 1-IB DP: read the information here

The IB DP is a two-year rigorous programme. For IB DP you will have to choose **3 subjects at Standard Level** and **3 at Higher Level**. To choose a **7th subject**, you must be academically very strong. **If you wish to study medicine in the NL, Physics will be your 7th choice**. Before you learn more about the subjects make a first choice. This is not your final choice. You do not have all the information yet, to make that final choice. Certain combinations of subjects are not offered in DP. Complete the grid below.

- Choose **one subject** from each **box**. Also write down the **Level!** At the end of MYP5, you need at least a **5 for a HL** subject and a **4 for SL** subject. For **Maths there are additional requirements**. We will review the package to see if it is a possible combination.

Here is an example of subject package from a student who after graduation from DP, chose an Art or Design at a University of Applied Science (**HBO**).

English A Language and Literature	HL
Dutch A Language and Literature	HL
History	SL
Maths A&I	SL
ESS	SL
Visual Art	HL
Possible 7 th subject	None

Note: The student has 3 Highers and 3 Standards, which is what most students have.

Activity 2 – The IB CP - <https://www.ishthehague.nl/academic/cp>

Let's find out about the IB CP Programme. We don't teach CP, but it is taught by the ISH in the Hague (<https://www.ishthehague.nl/academic/cp>) and by the British School (<https://www.britishschool.nl/our-school/sixth-form-16-18-/curriculum>) in Voorschoten, and at AICS (<https://aics.espritscholen.nl/home/secondary/curriculum/>) in Amsterdam. IB CP gives access to HBO courses in the NL.

On Managebac you will find a PowerPoint presentation which explains how CP is taught at the ISH. **Go to Class of 2025 → Files → Careers → Careers MP5 2022-2023 → IBCP Information (PowerPoint)**.

Answer the following questions:

a. **How long does it take to complete the IB CP?**

b. For DP the Core is **CAS, TOK, and the Extended Essay**. **What is the Core of the IB CP?**

.....

.....

.....

c. **At the ISH students choose 3 DP subjects. What are the two subjects CP students must have?**

.....

d. CP students also do BTEC Business. Use the internet to find out what does BTEC stands

for?.....

e. 2018 – 2019 saw the first group of CP graduates at the ISH. Two of our former MP5 students, Shant and Marusa were among the graduates. Find out from the PowerPoint Presentation about their Future plans.

Shant:

Marusa:

(Update 2020-2021: Shant is now studying at TU Eindhoven, after one year of HBO and passing two exams for Maths and Physics)

Activity 3 – Intermediate Vocational Education MBO

<https://www.rocmondriaan.nl/english>

In the past few years students have also successfully applied for **MBO courses**, more specifically, the **English-taught Hospitality Business** Course at MBO Mondriaan in the Hague (**IHMS**). This course is also offered in Dutch or as a Dutch/English (bi-lingual) course. What do students like about the course? The hands-on learning in combination with academic skills. After MBO students often apply to the Hospitality Business HBO school in the Hague, which is a highly selective school!

The IHMS is a Hotel and Management School which focuses on the world of Hospitality. We offer outstanding education for young people interested in a career in Hospitality. The classes, which are taught in English, are challenging, interesting and valuable. They equip students for employment within the Hospitality sector, as well as give a sound basis for starting a business. During the Industrial training period, students gain practical experience working as a trainee in Hotels all over the world.

The Hotel Management School offers students a four-year program of study. The first three years are spent in our classrooms, Hotel, Restaurants and Kitchens. The last year involves an Industrial Training. Together this creates a solid foundation for a successful career in Hospitality. In this course students perform real life projects which are supported by a number of subjects. In addition to their practical work experience, all students complete:

- Business Administration
- Business Economics
- Law
- Human Resource Management
- Computer Science, Catering
- Hotel Management
- Beverages and Menu education
- Hospitality Skills, Reception Work
- Environmental Hygiene Automation
- Financial Systems
- English, Spanish and Dutch.

Source:

<https://www.rocmondriaan.nl/alle-opleidingen/manager-ondernemer-horeca-hotel-engelstalig>

a: For an intake interview at the MBO Mondriaan International Hospitality Business School you must bring your portfolio with you, with 3 documents. *What are those? Find out from the Mondriaan website.*

1.....

2.....

3.

Interested in CP or MBO or Dutch education? Make an appointment with Ms Lamers and apply before 1 April.

Activity 4: Higher Education in the Netherlands

ISRLO statistics – most popular destinations for higher education:

1. The Netherlands

2. The UK

So, the majority of our DP students decide to study in the Netherlands. Why? The answer is simple: If you are an EU citizen, the tuition fees are very low.

The two main types of institutions for higher education in NL are:

- **HBO (Dutch: Hoger Beroeps Onderwijs) or Universities of Applied Sciences** or Polytechnic College/University (For example: the HBO Hotel and Business School in Scheveningen, the Hague)

- **WO (Dutch: Wetenschappelijk Onderwijs) or Research Universities** (For example: Leiden University)

What is the difference between these types of universities?

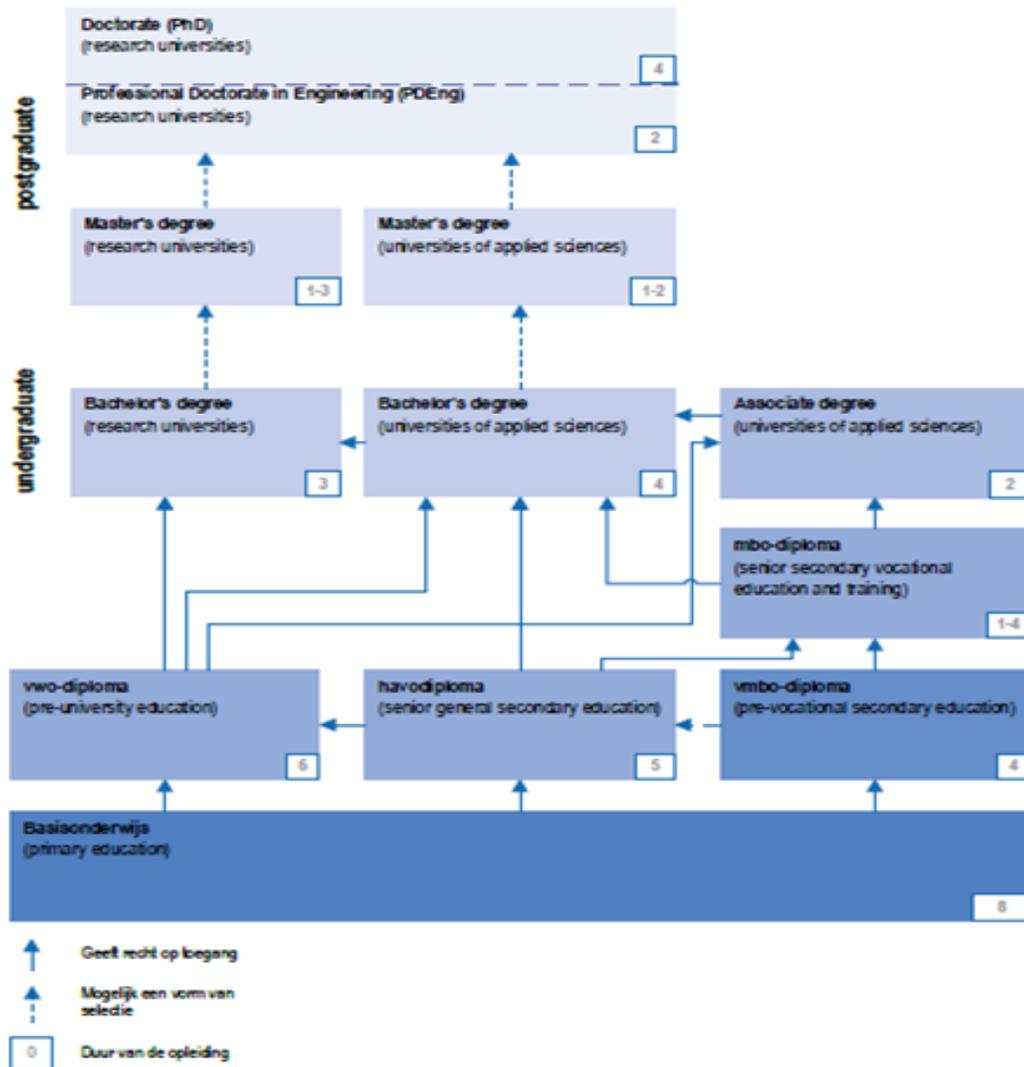
Research universities are mainly responsible for offering research-oriented programmes in an academic setting.

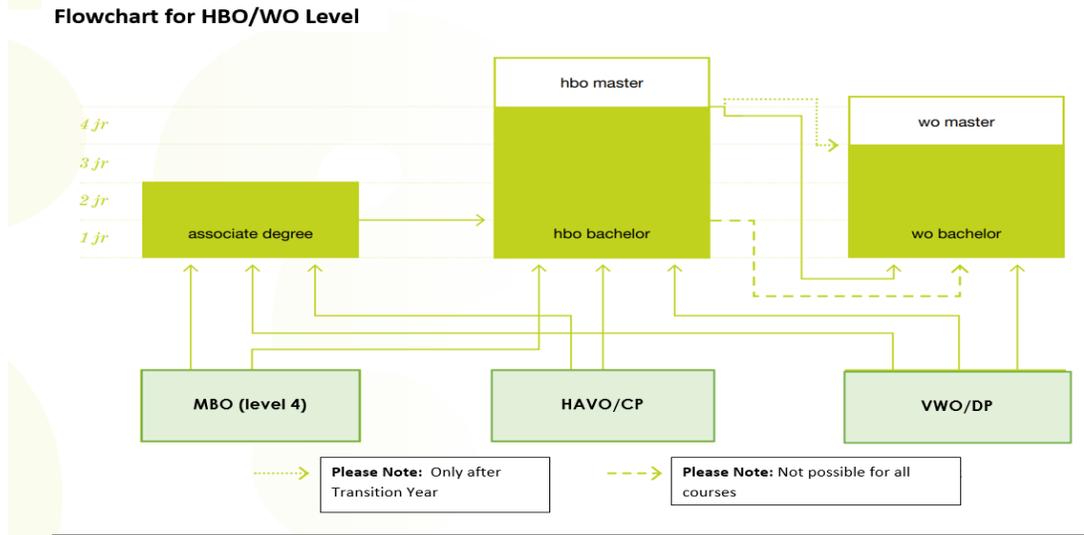
Universities of applied sciences offer programmes that focus on the practical application of arts and sciences. These tend to be more practice oriented than programmes offered by research universities and they prepare students for specific professions.

Source: <https://www.studyinholland.nl/dutch-education/dutch-institutions>

With an IB education you are regarded as an “**International Student**”, and it does not matter whether the university course is taught in English or in Dutch.

Stroomschema: onderwijssysteem Nederland





rilands (standaard)

Adapted from the Nuffic flowchart.

As is shown by the Nuffic models above, with the right subject package and after successfully completing the first year of an HBO course it is possible to transfer to a Research University.

a. From the studyinholland.nl website find out how many WO and how many HBO universities the Netherlands has. (Follow the top link: **Dutch Education**)

Number of WO universities: **Number of HBO universities:**

A third possibility for higher education is offered by the **University Colleges**. (Top link: **Dutch Education**)

b. From the studyinholland.nl website, explain what kind of education university colleges offer.

.....

c. Also from the studyinholland.nl website (Top bar – **Dutch Education**>**Degrees**) find out what an **Associate Degree** is and if it is offered at an HBO or a WO institute.

.....

Find a bachelor (= BSc or BA = undergraduate) course at **The Hague University of Applied Sciences (HBO)**.

- First Google: *The Hague university of Applied Science* and go to their Home Page.
<https://www.thehagueuniversity.com/programmes/bachelors/language/en>
- If it is in Dutch, **set the language to English**.
- You will see a list of courses starting with 'European studies', which are all offered in English.
- **Choose one bachelor course** which appeals to you.

a. Your BSc or BA choice:

Find out what the admissions requirements are for the chosen course? Will you have a Dutch HAVO/VWO/MBO Diploma? Will you apply as an International CP or DP student? Adapt your search to the education you are likely to finish after MP5.

b. I think I want to do (A-levels, MBO, HAVO, VWO, IB CP, IB DP)
after MYP5.

c. What are the admissions requirement for the course?
.....
.....

d. Does the website say anything about the subjects you need, to be able to study the Bsc course you have chosen?

.....

Numerus Fixus Courses

Some courses in the Netherlands, such as **Medicine, Aerospace Engineering, International Business Administration (IBA) in Rotterdam, Physiotherapy, Dental Hygiene, and AMFI Fashion and Textile Technologies (the list is much longer)** only accept a limited number of students. Such courses are called **Numerus Fixus (NF)** or **Limited Quota Courses**. To find out more about NF courses visit the Home Page of www.studyinholland.nl. Under the big picture click on 'Admission Requirements'> then How to Apply> next Numerus Fixus programmes. You will need to check the University website, as every year there is an update on which courses are NF or not.

Scan the page to answer the next 3 questions. **Now pretend you are now in DP2.**

- *What is the maximum of NF Bsc courses in the Netherlands you can apply for?*
- *What is the **deadline for a NF application?***
- *Can you apply for Medicine in Leiden **and** Medicine in Rotterdam?*

Go to www.studielink.nl. Set the language to **English** by clicking on the British flag. German is also possible. This is what the website looks like. It is the central registration website for higher education in the Netherlands.



Students who live in the Netherlands sign in to Studielink using their **DigiD**.

a. Do you have a DigiD? If not, how can you get a DigiD?

.....

On the Home page it says that “More information about Studielink can be found [here](#)”. Click on “here”. Under Studielink Q & A, check out everything under the subheading “**numerus fixus**”. Summarize your findings:

b.

Is there a particular undergraduate course you may be interested in studying in NL?

c.

d. Is your chosen course Numerus Fixus?

(If you have no idea what to do after high school, just try Physiotherapy (Dutch: Fysiotherapie) at the University of Applied Sciences in Amsterdam and find out if the course is NF. Answer:

The IB Diploma

An IB DP Diploma:
 - has **six subjects**. The **maximum grade per subject is a 7**
 - you get a **maximum of 3 points** for Theory of Knowledge (TOK) and the Extended Essay (EE) together.

a: What is the highest score for an IB Diploma?

Note: A 7th subject it is **not** part of your diploma, and you will get an IB certificate for it.

Let's do a some more research. Use www.studyinholland.nl or the website of Erasmus University and find out what is needed to study **IBA** at the Erasmus University in Rotterdam (EUR). Fill in the information for IBA at EUR in the boxes below.

Course	Subjects required	Other requirements- minimum number of points, application deadline
Example of a UK course: Law and diplomacy: at London Metropolitan University	English A or B: minimum 4	IB final score of 28 points Apply before 15 January in the year when you are in DP2 Your school may have set an earlier deadline.
IBA in Erasmus University, Rotterdam, The Netherlands		

Does EUR offer a **studycheck for IBA in English and in Dutch**? It is to help you find out if the course is what you think it will be, that is, right for you.

Answer:

Do some research and find out where in The Netherlands apart from Rotterdam you can study an **International Business** course in English? List one other Business course you can study at a **Research University** and one at a **University of Applied Sciences**.

I can also study an International Business Bsc at:

- which is a Research University (WO)
-which is a University of Applied Sciences (HBO).

Activity 5: Studying in the UK

How about studying in the UK? For this activity we visit the **UCAS website**, which gives information about universities and colleges in **the UK**. Go to www.ucas.com

Please note: As from the 31st December 2020 EU students pay International Tuition fees to study in the UK, making the UK a less attractive destination for EU students. However, if you have a British passport, it is still a great option. If you have been living in the Netherlands and you can get a Dutch passport when you turn 18, it is worth giving it some thought. Discuss with your parents, please. It will save you a lot of money if you decide to study in the Netherlands or elsewhere in the EU.

a. What does UCAS stand for? (**Use Google**).....

On the UCAS Homepage:

- Choose from the top menu **Undergraduate>Applying to University>** Scroll down a bit and choose **International and EU Applicant > Read the information.**
- **Watch the video:** <https://www.ucas.com/undergraduate/applying-university/international-and-eu-students/why-study-uk> (4.58 minutes) and answer the following questions:

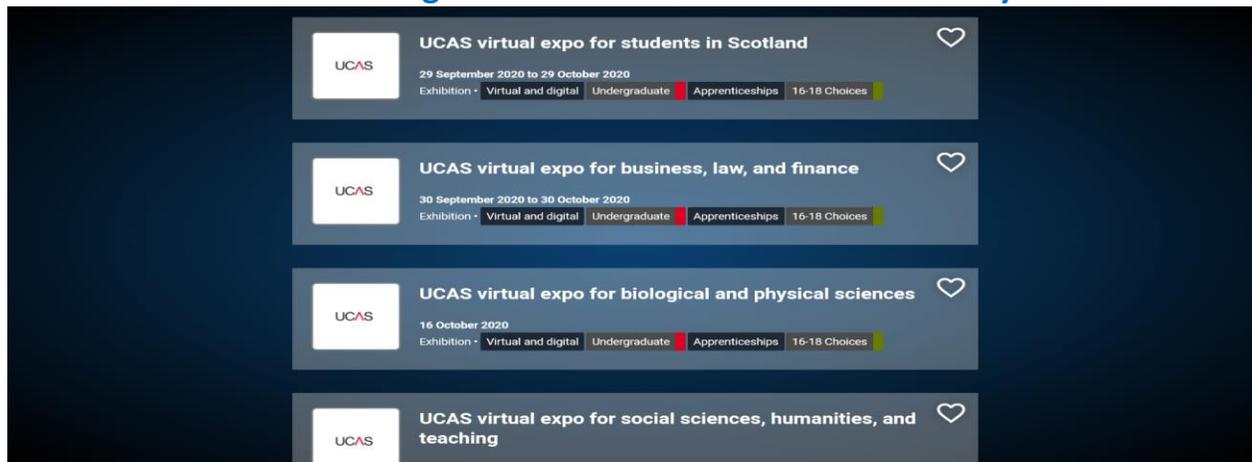
b. *What is the maximum number of university/college courses can you apply for using one UCAS application?*

c. **UCAS has two main deadlines for application.** What are those deadlines?
.....

d. *Mention two courses/universities that use and the early deadline*
.....

Note: In the Netherlands **Undergraduate Courses** are often called **Bachelor Courses (Bsc)**. Whether you study in the UK, in the Netherlands or elsewhere, you first do an Undergraduate /Bsc Course before you can do a Master. After a Master you can do a PhD.

Activity 6: Return to the UCAS homepage and click on Attend a UCAS Virtual Expo. These are online events to get more information about university courses.



Choose an Expo and find out more about what is on offer. Even if you have no interest in studying in the UK, knowledge about a course will help you in lots of ways. You will be more informed, and it is like a study check. The event can confirm if the course is right for you, or you decide you need to focus on another course.

If you are interested in creative subjects, the last Expo is the best one.

You can register for an expo. If the expo is during school hours, you need permission to attend.

- a. Have you registered for an Expo? If so, which one?
- b. What is the course / are the courses you are most interested in?
- c. Where do you find the request form?
- d. Who do you send the completed request form to?
- e. Will you get permission to attend if the event is also in the evening or on a Saturday?

Activity 7: Taking a Gap Year

After DP2/CP2 you may first want to take a gap year or dive straight into higher education. Check out the following websites for volunteering projects:

www.go-europe.nl

<http://Europa.eu/youth/volunteering/evs-organisation.nl>

http://europa.eu/youth/volunteering/project_nl

- a. Are you interested in taking a gap year?
- b. Do you know anybody who has taken a gap year? If so, who Have you had a conversation with them? If not, please talk to them.
- c. What did they do during their gap year?
- d. How did they finance the year?
- e. Would they do it again? Ask them about the pros and cons and summarise your findings here:
.....
.....

Activity 8: Open Days – use www.studiekeuze123.nl (It is in Dutch, but you’ll be fine)

MBO/HAVO/VWO students at school use www.studiekeuze123.nl to find out about Bsc courses in The Netherlands. This website is very useful to find out about **Open Days** and **Taster/Experience Days**, but it also offers information about what happens to university students after graduation. So, let’s get started.



Go to the **studiekeuze123** website and click on the menu (Top left). Select ‘**Open Dagen**’ (Open Days). Experiment a bit with the Open Days and check if you can find out more about an (online) Open Day or Webinar or Taster Day at **Leiden University College, which is in the Hague, behind the Hague Central Station. Is there an event and are you interested?**

.....

Note: To attend an Open Day on a normal school day you will need permission from your parents **and** from the school. **The request form is on Managebac, in IB Manager> MYP5>FILES> Careers counsellors> Special Leave Request Form**

Also, you must pre-register on the website of the university.

The request form must be sent to Ms Lamers as an attachment, **at least 7 days before the Open Day. In most cases permission will be granted. However, if permission is denied – the university also has an Open Day on a Saturday or you have requested to be absent in closing week - make sure to un-register for the Open Day on the university’s website.**



Special Leave Request Form DP1/2 & MP5

Use this form to request permission to take part in an event related to Higher Education during lesson time. The event can also be virtual (e.g. Lecture, Webinar) or an entrance test (e.g. SAT, ACT, BMAT/UCAT, LNAT, ELAT ...) or a University Interview, or a Selection Day etc.

Please fill in the form and mail the request to Ms Lamers, **at least 7 working days** prior to the event. The e-mail address is: a.lamers@rijnlandslyceum-rlo.nl

You will be notified by email of the decision. If permission is granted, the school absence controller will be notified and there is no need for further action.

School Work

Do you have any assessments or presentations on the day/hours you request to be absent? If the answer is 'yes', choose another day for your absence.	
Do you have any deadlines that day? The deadlines must be	

Complete the grid with information about 2 other higher education or intermediate vocational courses (MBO) in the Netherlands you find interesting. A course can be in English or in Dutch. Start with your absolute favourite.

Note: Even if the Bsc course is in Dutch, the books you read are mostly in English—unless you study Dutch Language and Literature. Courses like **Medicine** and **Dental Hygiene** are Dutch-taught courses. Some popular science courses at a Technical University are taught in Dutch. For these courses you need to be a native speaker of Dutch, which means you need Dutch A and some universities also accept Dutch B HL.

Course	Subjects required	Any other special requirements
Example: Aeronautical Engineering TU Delft – Bachelor programme	English, Maths A&A HL and Physics HL	Numerus Fixus , apply directly by 15 th January and register via studielink.nl * with my DigiD **code.

Note:

* **Studielink** is the Dutch central registration system for enrolment in higher education

** **DigiD** is an online ID required for many services provided by the Dutch government

Activity 9: Studying in the U.S.

In the US there are private and public universities. Top private universities (Harvard, MIT, Stanford etc.) are very selective, which means you need excellent grades, and the tuition fees are high. On the other hand, if you have excellent grades, and they accept you as a student, they will often lower the tuition fees if you cannot afford them. Public universities are not very selective, and they are a lot cheaper. For most private universities your IB diploma alone, will not be enough to secure a place. In addition, you will need excellent results for **SATs** or ACTs and universities/colleges might ask for a TOEFL Test. You will also write a college essay as part of the application process.

What do the following abbreviations stand for?

SAT=.....

ACT=.....

TOEFL=.....

The nearest test centre for SAT/ACT tests is the American School of The Hague in Wassenaar. Test can be taken several times a year. **Ivy League universities** will only accept the results of the first time you take the test. **If you are thinking of studying in the USA, take your SATs in DP1.**

Other useful websites for studying in the US:

www.studyusa.com

www.commonapp.org

www.fulbright.nl

www.ustudy.eu

www.mycoalition.org

Activity 10: Studying in other European countries

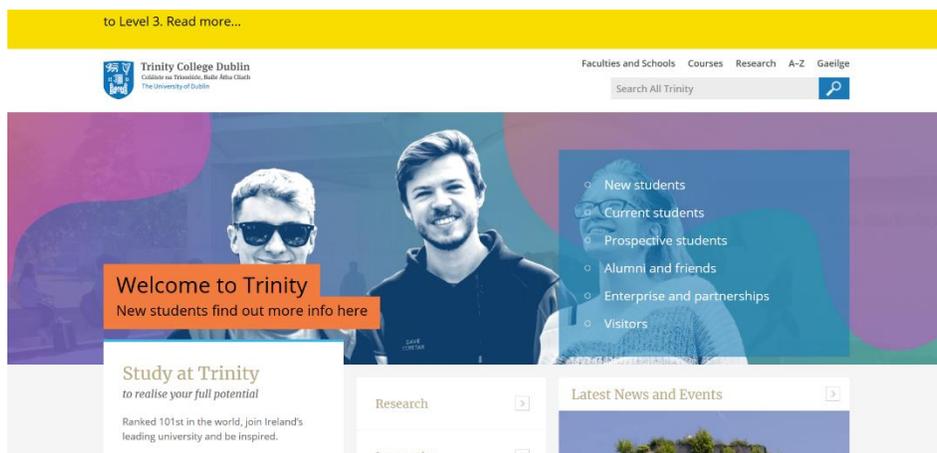
For Germany try www.studying-in-germany.org. Especially students who want to study **Medicine** or **Dentistry**, should check out Belgium. A good website is www.studyinbelgium.be. Leuven university also offers Bsc courses in English. Medicine and Dentistry courses are **not** offered in English. For Germany try www.studying-in-germany.org.

Did you know that countries like **Denmark** does not charge EU students tuition fees and have excellent courses in English? **Check out www.studyindenmark.dk or www.studyinsweden.se or www.studyinnorway.no or studyinfinland.fi for more information.**

Studying in Ireland: www.cao.ie The Central Applications Office (CAO) processes applications for undergraduate courses in Irish Higher Education Institutions.

Since Brexit studying in Ireland has become more popular for EU citizens. Application deadline is Feb 1st, however the results only come out after September 1st which is after some courses already started in for example the Netherlands.

Let's find out more about Trinity College in Dublin, Ireland via <https://www.tcd.ie/>



Click on **Prospective students** on the right of the Home Page. The select **Undergraduate**. From **Full Course Listing**, choose an area, then within the area a course which might interest you. Summarise your findings for the course here. Think of subjects and points you need, and when to apply.

My summary

Course chosen:

Short summary:

.....
.....

After all the research into the different options after MYP, it is time to look at the DP programme we are offering at ISRLO.

The IB Diploma Programme

You already know that the IB Diploma Programme is a package of 6 subjects, plus TOK, Extended Essay and CAS. The subjects are divided into 6 groups and you need to select one subject from each group.

Please read the [promotion criteria](#) for MP5→DP1 which can be found in the ROS Guide on the website under parents section.

What is said about the non-chosen subjects?

You dropped Geography, but now you are thinking of taking Geography HL in DP1. *What are the conditions for choosing Geography according to the promotion criteria?*

.....

Let's find out more about the contents of the subjects you can choose in DP

Group 1

Studies in Language and Literature (or language A)

We offer the following subjects:

English A Language and Literature HL/SL

English A Literature HL/SL

Dutch A Language and Literature HL/SL

Self-taught Language A (SSST) *extra cost involved

*For example, Italian A Literature self-taught or Icelandic Literature SL A self-taught or **Please talk to the Careers Counsellor if you are considering this option.** To take a Language A in DP you must have taken it as Language and Literature in MP5.

From the IBO guide (2020)

It is extremely important that students be appropriately placed into Diploma Programme (DP) language courses. Appropriate placement into language courses allows for suitable degrees of challenge for development in those languages. Misplacement of a student into a language course which does not provide an appropriate degree of challenge for the student may provide the student with an unfair advantage over those who are appropriately placed into the course. Intentional misplacement may be considered school maladministration according to [academic integrity](#).

When making placement decisions, the following guidance must be taken into consideration.

Students who are already able to read, analyse and respond to complex literary and non-literary texts in given language must be placed in a 'studies in **language and literature course**' for that language. If a student can already communicate successfully in the language on a range of topics in a variety of familiar and unfamiliar contexts, then a DP studies in language and literature course must be considered the appropriate placement.

The **language ab initio** and **language B** courses are language acquisition courses – designed to provide students the opportunity to develop in a language in addition to their home/personal/best language(s). They are not designed for students entering the course who have already the ability to communicate confidently and proficiently in that specific language.

Language ab initio is designed for students with no prior experience of the target language, or for those students with very limited previous exposure. Students will be introduced to the conceptual understandings that underlie language acquisition and begin to develop receptive, productive and interactive skills.

Language B SL is designed for students with some experience in the target language who already have the ability to communicate in the language in familiar contexts. While in the course, they will further develop this ability. Students will explore the conceptual understandings that underlie language acquisition and begin to use higher-level thinking in the development of receptive, productive and interactive skills.

Language B HL is designed for students with previous experience in the target language who have the ability to communicate in that language in a variety of contexts and for a variety of purposes. As the study of two literary works originally written in the target language is compulsory in language B HL, entering the course with these communication skills would allow the student to begin the study of works of literature originally written in the

target language. During the course, students are expected to use higher order thinking skills in the development of their receptive, productive and interactive skills.

The following tables provide guidance in placing students in an appropriate language course. The “If a student can....” Statements have been developed from course [grade descriptors](#). A student who exhibits a majority of statements shown under the receptive, productive and interactive skills headings would likely be able to handle the course whilst being appropriately challenged.

If a student can...	The recommended course is
Receptive Skills	
<ul style="list-style-type: none"> • demonstrate a good understanding of the meaning and purpose of written texts, including literary texts; • demonstrate a good understanding of the meaning and purpose of oral texts; • recognize some subtleties of specific language use and their effects. 	Language A: literature or Language A: language and literature or Literature and performance
Productive Skills	
<ul style="list-style-type: none"> • speak mostly clearly and fluently and use a varied range of language mostly accurately; • write fairly detailed texts demonstrating a good command of vocabulary with a good level of grammatical accuracy; • show a reasonable ability to adapt their writing to suit the intended audience and purpose; • express ideas and organize work coherently. 	
Interactive Skills	
<ul style="list-style-type: none"> • handle ideas mostly effectively with generally full interaction; • exhibit some difficulties with more difficult questions. 	
If a student can...	The recommended course is
Receptive Skills	
<ul style="list-style-type: none"> • demonstrate a good understanding of the meaning and purpose of written texts; • demonstrate a good understanding of the meaning and purpose of oral texts. 	Language B HL
Productive Skills	
<ul style="list-style-type: none"> • speak generally clearly; • respond appropriately to most questions but struggle with responding to difficult questions; • demonstrate an adequate command of vocabulary and grammatical accuracy; • use basic and some complex language correctly; • show a reasonable ability to adapt writing to suit the intended audience and purpose; • express ideas and organize work appropriately. 	

Interactive Skills	
<ul style="list-style-type: none"> • respond appropriately and demonstrate comprehension; • use pronunciation and intonation which facilitate the understanding of the message; • make independent contributions; • produce clear messages. 	
If a student can...	The recommended course is
Receptive Skills	Language B SL
<ul style="list-style-type: none"> • demonstrate adequate understanding of the meaning and purpose of written texts; • demonstrate adequate understanding of the meaning and purpose of oral texts. 	
Productive Skills	
<ul style="list-style-type: none"> • develop some ideas using a logical structure use a range of basic cohesive devices; use basic grammatical structures accurately; • use a range of basic vocabulary and appropriate register. 	
Interactive skills	
<ul style="list-style-type: none"> • respond appropriately and generally demonstrate comprehension; • use pronunciation and intonation which often facilitate the understanding of the message; • make some independent contributions; • produce mostly clear messages. 	
If a student	The recommended course is
<ul style="list-style-type: none"> • has no prior experience in or has had very limited previous exposure to the target language. 	Language ab initio

Name of subject: *English Literature SL and HL*

What topics will I study?

The course focusses on the study of literary works and is organised into three **areas of exploration** and seven **central concepts**. Together, the three areas of exploration of the course add up to a comprehensive exploration of literature from a variety of cultures, literary forms and periods. Students learn to appreciate the artistry of literature and develop the ability to reflect critically on their reading, presenting literary analysis powerfully through both oral and written communication. Literature is concerned with our conception, interpretation and experience of the world. The study of literature explores the pursuits, anxieties, joys and fears to which human beings are exposed in daily life. Human creativity in the form of drama, fiction and poetry provides the opportunity to develop independent, original, critical and clear thinking in our students. It promotes respect for the imagination and a perceptive approach to the understanding and interpretation of literary works.

What will I learn to do?

- Students study 13 works at higher level and 9 works at standard level from a representative selection of literary forms, periods and places. HL also
- Students develop the ability to engage in close, detailed analysis of literary works, building understanding of the techniques involved in literary criticism

The focus of the literature course is to develop the students' understanding of the techniques involved in literary criticism and their ability to form independent literary judgments. Through studying a wide range of literary works the students are encouraged to appreciate the artistry of literature and develop the ability to reflect critically on their reading. Works are studied in their literary and cultural contexts, through close study of individual texts and passages, and by considering a range of critical approaches. The study of works in translation is especially important in exposing students, through literature, to other cultural perspectives. The response to the study of literature is through oral and written communication, therefore students develop and refine their command of language.

What skills do I need to study this subject successfully?

In order to meet the learning outcomes of the Literature Course students need a strong grasp of the following skills:
Language skills: students are expected to express their ideas in clear, unambiguous language, paying attention to appropriate style and register. They must structure their ideas coherently and effectively and use formal language suitable for literary analysis.

Critical approaches: to develop independent literary judgment students learn to have critical views of texts to stimulate a broader understanding.

Literary conventions: students learn to identify and interpret the characteristics of various literary genres, such as dialogues or speeches in plays, metre and rhyme in verse or foreshadowing flashbacks in prose fiction.

Students who take the English Literature course should have a love for reading and a keenness to analyse literature, and thus discover new hidden meanings behind a literary text.

This subject will be difficult if the student is not a fluent user of the language chosen, and/or has a slow working/reading pace. There are no formal requirements for students undertaking the Literature course.

You must have this subject for the following degree courses:

Literature

This subject is desirable for the following degree courses:

Philosophy, Journalism, Teaching, and Law.

Name of subject: *English or Dutch Language and Literature SL or HL*

Course requirement

To be able to take **Dutch A** in DP the student must have taken that language at the language and literature level by the end of MYP5. All students in MYP5 are in English A.

If **English A** is not the right route for the student, the English subject teacher will offer advice.

What topics will I study?

Students study 6 works at higher level and 4 works at standard level from a representative selection of literary forms, periods and places. Students are also required to study a range of non-literary texts and bodies of work that include a wide variety of text-types.

The course is organized into three areas of exploration + seven central concepts and focuses on the study of both literary and non-literary texts. Together, the three areas of exploration allow the student to explore the language in question through its cultural development and use, its media forms and functions, and its literature.

Students develop skills of literary and textual analysis and learn to present their ideas effectively. The areas of exploration and the key concepts are linked to **global issues**, such as immigration, politics, protest, beauty, racism etc. Students keep a **learner portfolio**.

What will I learn to do?

Apart from being exposed to texts from different periods, styles and genres, students learn to express themselves through written and oral communication. Students develop an understanding of how language, culture and context determine the ways meaning is constructed in texts. The students are encouraged to think critically about the different interactions between texts, audience and purpose.

What skills do I need to study this subject successfully?

In order to meet the learning outcomes of the Language and Literature Course students develop the following skills:

Language skills: Students are expected to acquire the vocabulary appropriate to the analysis of texts; students are expected to express their ideas in clear, unambiguous language, paying attention to appropriate style and register in their production of a range of texts intended for different audiences and purposes.

Close analysis of texts: the texts and the context in which they exist create meaning. Students learn to identify the connections between context and meaning. This leads to the ability to critically analyse the texts, allowing the students to assemble the evidence they require to justify their reading and understanding of the texts and their contexts. Students learn to write about similarities and differences between texts in terms of structure, style, message, and purpose.

Visual skills: Images may be analysed for form, content and meaning in much the same way as a conventional written text. Students will develop skills in understanding and interpreting still images, moving images and sound.

Learner Portfolio: Keeping a record of activities and reflections.

This subject will be difficult if the student underestimates the workload. To take **English at HL**, the final MYP5 grade for English must be **5 or higher**. HL has more teaching hours than SL. HL also has a research essay.

You must have HL for the following degree courses: English Language and Literature

English and Dutch A Language and Literature HL are desirable for the following degree courses:

Journalism, Law, Politics/International Relations, Media Studies,

Dutch A is important for Bsc courses taught in Dutch, such as, Medicine, Physiotherapy, Maritime Technology etc.

My choice for Group 1 Language A is

Could I consider another option?

Group 2

Language Acquisition (or language B) or choose another Language A

This will be a language that you have learned at school. We offer the following:

- French HL / SL
- Spanish HL/SL
- Dutch B HL/SL
- English B HL only
- Ab Initio French, Spanish and Mandarin SL are Pamoja courses. Students have an online tutor, and the course is supervised by a member of staff. Ab Initio courses come at an additional fee.
- A language A not chosen in Group 1*

To take a Spanish/French B in DP at Higher Level, the student must have reached at least Phase 4 in MP5
To take a Spanish/French B in DP at Standard Level, the student must have reached at least Phase 3 in MP5.
To take Dutch B SL, the student must have reached Phase 3 or 4 in MP5.
To take Dutch B HL, the student must have reached Phase 5 or 6 in MP5.

Note: *If at the end of MP5 you are in English A or Dutch A, in DP1 you will stay in English/Dutch A. Placing you in Dutch B to up your grade is considered malpractice!*

*A Language A not chosen in Group 1

- A language A not yet chosen in group 1 - Dutch A Language and Literature SL/HL, or
- A Mother-tongue Literature Self-Taught SL language (For example: Italian Literature SL).

Name of subject: French B HL/SL or Spanish B HL/ SL or Dutch B HL/ SL or English B HL

Which topics will I study?

The core topics in the IB programme for these languages will be Social Relationships, Global Issues and Communication and Media. Apart from these core topics you will study 2 of following options: Health, Customs and Traditions, Leisure, Cultural diversity, Science and Technology. You will also read 2 works of literature (HL). Within the topics mentioned we will study a range of diverse texts, such as newspaper or magazine articles, and we will explore the culture of the countries in which the language is spoken. We will also watch (parts of) movies and will read (parts of) theatre plays and we will have class discussions as well.

What will I learn to do?

You will learn to communicate in the language you are learning in a great number of situations (speaking and writing) and to read and understand a range of texts. There will be interactive group orals (dialogues/discussions/role-play etc.) and individual orals. The grammar will be revised, and you will learn to write different texts, such as, a blog, a formal or informal letter, an e-mail, a news report, a diary, a column, another chapter for a book etc.). In comparison to standard level, the texts will be longer and more difficult and there will be more focus on essay-writing. For Higher Level you will do written assignments based on literary texts.

What skills do I need to study this subject successfully?

You will need all 4 language skills: Speaking, Listening, Reading and Writing. You should be motivated to use the target language in class and contribute actively. It is a positive if you are willing to actively seek out opportunities to practise the language of your choice. **Reading and Listening comprehension** are part of the assessment.

This subject will be difficult if you're already struggling with your language acquisition course in MYP5.

Higher Education and Dutch IB language courses: Dutch B HL may be accepted for Dutch-taught courses in the Netherlands. In Belgium you may still be asked to pass an NT2/CnaVT/ITNA level 2 exam, even with DP Dutch A SL. Leuven and Antwerp do accept Dutch A HL, for higher education courses taught in Dutch. English B HL is accepted in Dutch higher education, for courses taught in English.

Language skills are especially important for the (Hospitality) Business courses.

My choice for Group 2 Language B or Language A is

Could I consider another option?

Group 3

Individuals and Societies

IBDP students must study at least one subject from group 3.

We offer:

- [History SL/HL](#)
- [Geography SL/HL](#)
- [Economics SL/HL](#)
- [Business Management HL](#)
- [Environmental Systems and Societies SL \(also see Group 4\)](#)

*The aims of all subjects in **group 3, individuals and societies** are to:*

1. encourage the systematic and critical study of human experience and behaviour; physical, economic and social environments; and the history and development of social and cultural institutions
2. develop in the student the capacity to identify, to analyse critically and to evaluate theories, concepts and arguments about the nature and activities of the individual and society
3. enable the student to collect, describe and analyse data used in studies of society, to test hypotheses, and to interpret complex data and source material
4. promote the appreciation of the way in which learning is relevant both to the culture in which the student lives, and the culture of other societies
5. develop an awareness in the student that human attitudes and beliefs are widely diverse and that the study of society requires an appreciation of such diversity
6. enable the student to recognize that the content and methodologies of the subjects in group 3 are contestable and that their study requires the toleration of uncertainty.

Name of subject: History Higher Level and Standard Level

What topics will I study?

In principle, HL and SL cover many of the same topics. Additional focus on European history topics will be added in the HL groups.

DP1 History topics:

- European diplomacy and the origins of the First World War 1870-1914
- The First World War
- Peace-making, peacekeeping – international relations 1918-1936
- The Rise and Rule of Hitler and the NSDAP in Germany 1920-1945
- The Russian Revolutions and the creation of the USSR (HL only)
- The Rise and Rule of Stalin in Russia (1924-1945)
- The Rise and Rule of Mussolini in Italy (HL only)
- The Spanish Civil War (1936-1939)
- The Origins of the Second World War (1936-1939)
- The Second World War

DP2 History topics:

- Post-war Western Europe 1944-2000 (Part 1 – obligatory)
- Wartime conferences: Yalta and Potsdam
- US policies and developments in Europe: Truman Doctrine, Marshall Plan, NATO
- Soviet policies, Sovietisation of Eastern and Central Europe, COMECON, Warsaw Pact
- Post-war Western Europe 1944-2000 (Part 2 – HL options)
- Post-war problems and political and economic recovery in Western Europe: devastation; debt 1945-9
- Establishment and consolidation of the Federal Republic of Germany to German reunification
- Moves towards political and economic integration, cooperation and enlargement post-1945: EEC, EC, EU
- Spain: Franco's regime and the transition to, and establishment of, democracy under Juan Carlos
- Case study of one Western European state between 1945 and 2000 (excluding Germany and Spain): the nature of the government; domestic policies; opposition and dissent (HL option)
- The Chinese Civil War (1927-1937 and 1946-1949)
- The Rise and Rule of Mao Zedong and the Chinese Communist Party, 1920 – 1976
- The Korean War (1950-1953)
- The Rise and Rule of Fidel Castro in Cuba, 1957 – 2007 (if time allows)
- The Cold War – developments after 1950 (HL options for detailed European History)
- Global spread of the Cold War from its European origins
- Sino-Soviet relations/ US-Chinese relations
- Germany (especially Berlin (1945-61)), Korea, Cuba, Vietnam, Middle East
- Role and significance of leaders: Castro, Gorbachev, Kennedy, Mao, Reagan, Stalin, Truman
 - Cold War policies of containment, brinkmanship, peaceful coexistence, détente
 - Role of the United Nations and the Non-Aligned Movement
 - Arms race, proliferation and limitation
 - End of the Cold War
 - Break-up of Soviet Union: internal problems and external pressures
 - Breakdown of Soviet control over Central and Eastern Europe

What will I learn to do?

- At the end of the course, the student should be able to:
- Demonstrate detailed and in-depth historical knowledge and understanding
- Select, interpret, compare and evaluate historical sources
- Apply historical knowledge as evidence
- Show awareness of and evaluate different approaches to, and interpretations of, historical issues and events
- Demonstrate the ability to structure an essay answer, using evidence to support relevant, balanced and focused historical arguments
- Demonstrate evidence of research skills, organization and referencing

What skills do I need to study this subject successfully?

You must be able to read extensively from a variety of sources and be able to make detailed notes on your readings. You need to also be able to take notes on video sources. You need to be willing to discuss historical topics from an open-minded, rational point of view and be willing to listen to and consider the ideas of others. You need to be critical about your own writing and seek to improve not only your writing skills, but your vocabulary, grammar and penmanship. You need to have the discipline and skills to master detailed historical knowledge.



This subject will be difficult if you don't like to read and make detailed notes. You will be expected to memorize factual information and use it as support in essays: many essays.

This subject is desirable for the following degree courses:

History, art history, law, economics, literature, anthropology, sociology, international business, journalism, diplomacy.

Name of subject: Geography Higher Level and Standard Level

What topics will I study at Standard Level?

The core topic is called 'patterns and change' and is geared to focus on content that a young person needs to know about the world – namely how population is changing around the world, the impact people are having on the earth and the way quality of life for everyone is developing. The concept of a sustainable future for the earth is at the heart of the study.

Two option topics, from a choice of seven, are also studied: the geography of food, health and disease, plus life and changes in an increasingly urbanized world.

What will I learn to do?

The focus on learning is not only the development of content knowledge, but also being able to think in a balanced and critical way about what is happening in the world. Part of the course requires students to question how they live and understand how and why other people, elsewhere in the world, live the way they do. The ability to evaluate and analyse changes and situations are well developed throughout the course, as well as field work and research skills, data interpretation and essay writing.

What skills do I need to study this subject successfully?

- A willingness to read about what is going on in the world, to follow news events, to be prepared to think critically but fairly.
- A readiness to read a lot, to make careful notes and to write detailed answers.
- Organisation and an ability to read a range of maps.
- An interest in other places and people and natural environments.

This subject will be difficult if you do not have the self-discipline to read the various articles, case studies and texts; or you don't like to think critically.

You must have this subject for the following degree courses:

No degree courses require Geo SL, but Human Geography and Planning at Groningen University is a popular course and the work done for Geography in DP certainly makes it easier and more enjoyable.

This subject is desirable for the following degree courses:

Social sciences, environmental sciences, anthropology, sociology

What topics will I study at Higher Level?

In addition to everything geography standard level students will study, at Higher Level students will also study an extra option focusing on the nature of hazards and disasters. The focus is very much on how people perceive the

threat of a natural hazard, e.g. a hurricane, and how they plan for the risk of such a hazard occurring or respond to a disaster. This section is 25% of the extension HL course.

Furthermore, HL students are extended via the detailed study of global interactions in which the patterns and reasons for an increasingly globalised world are considered, together with an understanding and examination of the economic, political, cultural and environmental outcomes. This section counts for 75% of the extension HL course.

What will I learn to do?

HL students will learn in the same way as SL students. In addition, they will be challenged to make connections between events and processes happening around the world to respond to tasks (in the form of essay questions) that require both analysis and synthesis of information.

Students will learn to write careful, structured written responses.

What skills do I need to study this subject successfully?

The same skill set, interests and organization as for SL are required for HL geography. In addition, students need to be prepared to organize their time effectively as the additional material for the HL course will be covered parallel to the content for both SL and HL. HL students will follow a separate extra lesson every week.

This subject will be difficult if you are not interested in the subject and cannot dedicate sufficient time to researching and reading articles, case studies and texts.

You must have this subject for the following degree courses:

Geography

This subject is desirable for the following degree courses:

Social sciences, environmental sciences, anthropology, sociology etc.

Name of subject: Economics Higher Level and Standard Level

What topics will I study?

The core economic problem of scarcity is resolved from a microeconomic (households and businesses) and macroeconomic (countries, regions) perspective. Students will also explore the complexity of economic decision-making in international economics, such as how to ensure a comparative advantage in trade and development economics, which considers how countries can achieve economic development and the complexity therein.

HL is similar to SL, though HL has additional, more in-depth material which is often more mathematically challenging and which is assessed by IB in an additional mathematical paper (Paper 3).

What will I learn to do?

Consider a range of economic concepts and theories and apply them to real-world examples to see the difficulty facing economic decision-makers needing to make choices in complex or dynamic situations. Challenging economic assumptions or perspectives is encouraged as economics is an evolving social science. You will learn to write short essays explaining the theory/diagrams and giving examples as well as evaluating the application to this context and the effectiveness or suggesting alternatives and justifying them. You will take articles and apply economic theory and concepts to it evaluating whether the economic or political decision taken will be effective to achieving the goals

What skills do I need to study this subject successfully?

Good language and mathematics skills are valuable. Essential are analytical skills and a willingness to think critically. Actively participating in class as well as a willingness to read newspapers and be aware of local and international developments are key.

This subject will be difficult if

You struggle with English or Math and if you are not interested in it or willing to keep abreast of local and international news.

You must have this subject for the following degree courses: Economics, political sciences, international relations, development studies and other social sciences at universities of applied sciences.

This subject is very desirable for the following degree courses: Economics or other business-related courses, political sciences, international relations and other social sciences.

Name of subject: Business Management (Higher Level only)

What topics will I study?

In Business Management you will explore the objectives, decision-making and ethical aspects of operating a business. Through many case studies students explore aspects related to human resources (hiring, motivating, organizing personnel), marketing (the best way to promote sales of goods and services), finance and accounts (how the business can be made most profitable) as well as operations management (the best way to organize your production and invest in new techniques).

What will I learn to do?

You will apply the theory learned to various case studies in order to choose the best possible business management tools to achieve the company's objectives. By experiencing a range of situations a business can be in, you can apply relevant tools and appreciate the complex and dynamic nature of business management.

What skills do I need to study this subject successfully?

A willingness to research businesses and the marketing, organizational or financial decisions they have taken is valuable. You will need to choose an organization to conduct primary and secondary research and ultimately advise the company regarding an issue or problem it is facing. Excellent language and math skills are an asset.

This subject will be difficult if you have difficulty with English or math, or you are not interested in the decision making of firms.

You must have this subject for the following degree courses: Business management and Economics courses at Universities of Applied Sciences in the Netherlands.

This subject is desirable for the following degree courses at research universities in the Netherlands: IBA, Economics, International Relations etc. A broad range as business management skills can be used for entrepreneurship in any field.

My choice for Group 3 Individuals and Societies is

Could I consider another option?

Would I consider taking another 'humanity' as my 6th subject?

What is my motivation?

Group 4: Sciences

IBDP students must study at least one subject from group 4. We offer the following subjects:

- **Biology Higher Level / Standard Level**
- **Chemistry Higher Level / Standard Level**
- **Physics Higher Level / Standard Level**
- **Environmental Systems and Societies Standard Level (trans-disciplinary, so can count as a group 3 and / or a group 4 subject)**

Name of subject: Biology Higher Level and Standard Level

What topics will I study for SL?

The **core topics** that will be studied are:

1. Cells
2. Molecular biology
3. Molecular and theoretical genetics
4. Ecology
5. Evolution and biodiversity and
6. Human physiology

Additional topic (called option): Human physiology

Additional Higher-Level topics:

7. Nucleic acids and protein structure and function
8. Metabolism, cell respiration and photosynthesis
9. Plant biology and
10. Animal physiology and
11. Genetics and evolution

Additional topic (called option): Human physiology

What will I learn to do?

You will learn a lot of biological facts and biological principles. You will however also gradually learn (and that is fun) that there is a greater picture. And that seemingly isolated facts and principles fit into a greater whole. There is an overarching theme in the course called the 'Nature of Science' which promotes concept-based learning and provides a bit of a philosophical background to what you are learning. In addition, applications of the topics through everyday examples are described. This makes it much easier to become aware of the context and the relevance of what you are studying.

You will learn to keep neat notes and to study large amounts of information. You will learn how to carry out some statistical tests which will come in handy during the internal assessment: for which amongst other things, you will design, carry out and write up an investigation of your choice. That should take about 10 hours. You will also learn a variety of other practical skills such as biological drawing, working effectively with a microscope, working with Pasco equipment, dissecting of biological material, working with chemicals and apparatus. You will be exposed to field techniques during fieldwork.

What skills do I need to study this subject at SL successfully?

No previous Scientific knowledge is required. A real interest in biology is important.

What skills do I need to study this subject at HL successfully?

A real interest in biology is important. And it makes it easier, if you have done biology in previous years. It is also very handy to have a good understanding of basic chemistry as some of the topics are biochemical in nature. Besides this, students who are neat and methodical and are prepared to work hard are generally successful.

This subject will be difficult if you are not prepared to work hard and learn the work as you go along! A lot of information has to be committed to memory by the time the final exams start, and it makes things very difficult if you do not really get down to learning it properly from the beginning. The subject will also be difficult if you are undisciplined about deadlines for lab work.

You will need to check the need for biology HL if you wish to study medicine, dentistry or a medical related subject at university. In addition, biology SL or HL is a wise choice if you wish to study any medical Bsc - biology, (vet) medicine, dentistry, psychology, dental hygiene, molecular life science, physiotherapy or sports sciences, zoology, botany and other similar courses.

Name of subject: Chemistry Higher Level and Standard Level

Chemistry is an experimental science that combines academic study with the acquisition of practical and investigational skills. It is called the central science, as chemical principles underpin both the physical environment in which we live and all biological systems. Apart from being a subject worthy of study in its own right, chemistry is a prerequisite for many other courses in higher education, such as medicine, biological science and environmental science, and serves as useful preparation for employment – most of which require Chemistry HL.

What will I learn to do?

This course comprises of 75% theoretical work and 25% practical work. In a combined SL/HL class approximately 2/3 of the teaching time is spent on the core and about 1/3 of the time on additional HL content. The following topics will be taught:

1. Stoichiometric relationships
2. Atomic structure
3. Periodicity
4. Chemical bonding and structure

5. Energetics/thermochemistry
6. Chemical kinetics
7. Equilibrium
8. Acids and bases
9. Redox processes
10. Organic chemistry
11. Measurement and data processing

In addition, one of the following options will be taught:

- A. Materials
- B. Biochemistry
- C. Energy
- D. Medicinal chemistry

What skills do I need to study this subject successfully?

An interest in chemistry and a good understanding of the basics of chemistry (especially for HL). You should also have a good understanding of mathematics. You need to be prepared to work hard.

This subject will be difficult if you are having trouble with chemistry in MP5, in general a good indication for success in DP is that you need to do well on your tests (criteria A) in MP5. If your test grade is lower than a 4 you will have difficulty in the standard level class. If your test grade is lower than a 5, you will have difficulty with Higher Level.

You must have this subject at HIGHER LEVEL for the following degree courses:

Medicine, natural sciences, chemical engineering, biology, pharmacy, pharmacology, biological sciences and environmental sciences.

Name of subject: Physics Higher Level and Standard level

What topics will I study for SL?

Topic 1: Measurements and Uncertainties

Topic 2: Mechanics

Topic 3: Thermal physics

Topic 4: Oscillations and waves

Topic 5: Electricity and magnetism

Topic 6: Circular motion and gravitation

Topic 7: Atomic, nuclear and particle physics

Topic 8: Energy production

Option: Imaging

Additional Higher-Level topics:

Topic 9: Wave phenomena

Topic 10: Fields

Topic 11: Electromagnetic induction

Topic 12: Quantum physics and nuclear physics

Option: Imaging

What will I learn to do?

You will learn how to demonstrate and understand scientific facts and concepts, scientific methods and techniques, how to use scientific vocabulary and how to communicate your findings; learn how to think logically, how to design, predict and research a given topic.

What skills do I need to study this subject successfully?

Math (especially algebra) and a lot of motivation.

This subject will be difficult if:

- you can't rearrange equations and if you find logical thinking hard
- you have a 4 (or less) for Criterion A during MP5 (tests are in DP the only way you will be graded, and the practical work is used for the Internal Assessment). So Criterion A (Knowledge and Understanding) is an important indicator.

You must have Physics HL subject for the following degree courses:

Engineering, theoretical and applied physics, computer sciences, architecture, astronomy, and astrophysics.

Physics HL subject is desirable for the following degree courses:

Geography, medicine

You must have Physics SL subject for the following degree courses:

At present you need physics standard level if you wish to study medicine, dentistry or veterinary medicine in the Netherlands.

Physics SL is desirable for the following degree courses:

Geography, geology, natural sciences

For all Sciences in the DP the practical work consists of 40-60 hrs, including an individual investigation of 10 hrs and the group 4 project.

Name of subject: Environmental Systems and Societies Standard Level (ESS SL)

Note:

If you choose ESS in DP the final grade for Biology or Geography will be taken into consideration.

What topics will I study?

ESS involves the study of ecosystems and how humans come to use and affect them. Environmental issues may be controversial and may provoke a variety of responses, therefore a holistic view is taken that is a focus on the interrelationships between environmental systems and societies from a scientific, ethical, cultural and socio-political viewpoint. The precise topics to be studied are an introduction to systems and models; an appreciation of value systems when considering environmental issues; the ecosystem; human population change and its demand on the resources of the earth; conservation and biodiversity; pollution management and the issue of global warming.

What will I learn to do?

Understand environmental pressures; develop and apply knowledge and skills that allow a balanced analysis of environmental issues at local and global levels; appreciate how the perspectives of global issues may differ as a result of cultural and socio-economic backgrounds; appreciate the role of technology in causing and solving environmental problems as well as the need for humans to work together to solve the problems; work together to collect and analyse a range of data obtained from lab work, surveys, questionnaires or from secondary sources.

What skills do I need to study this subject successfully?

No prior study of a science and / or geography is demanded, however, the international perspective, the awareness of both local and global environmental concerns and an understanding of scientific method - all key aspects of the course – would suggest that a course sharing these aspects would offer a good preparation.

This subject will be difficult if you lack organization or a willingness to read and think about events from a perspective different to your own.

You must have this subject for the following degree courses:

No degree courses require this subject at IB

This subject is desirable for the following degree courses:

This subject might be a useful preparation for degree courses in environmental sciences or environmental studies, anthropology and other social sciences

NOTE: ESS CAN EITHER COUNT FOR A GROUP 3 SUBJECT OR FOR A GROUP FOUR SUBJECT
OR
ESS CAN COUNT FOR BOTH GROUP 3 AND 4 AT THE SAME TIME....
..... so you can take 3 languages plus visual arts or music for example!

Note: If you wish to study (vet)medicine, dentistry or biomedical sciences in the Netherlands or in Belgium, you should take biology HL and chemistry HL and physics SL as a 7th subject.
At the start of term 1 you could request a non-regular diploma, which makes it possible to drop the subject from individuals and society after term 2, should you need to.

My science for Group 4 is

Could I consider another science option?

Am I considering taking a second science and what would it be?

Group 5 Mathematics

All IBDP students must take one mathematics course. We offer one higher and two standard levels Maths courses:

[Mathematics Analysis and Approaches Higher Level \(A & A HL\)](#)

Mathematics **Analysis and Approaches Standard Level (A & A SL)**
Mathematics **Applications and Interpretation Standard Level (A & I SL)**

To take A & A HL:

You must ENJOY maths and want to be challenged because it will be difficult
You must have achieved at least a 6 for Maths Extended at the end of MYP5.

To take A & A or A & I SL:

You must be prepared to work hard, because this is not an easy course!

There is a common part that is studied in all three mathematics courses, which contains the following topics:

Algebra: scientific notation, arithmetic & geometric sequences & series, exponents and introduction to logarithms

Functions & Equations: linear functions, function notation ($f(x)$), inverse functions ($f^{-1}(x)$), sketching functions, using technology to analyze graphs

Geometry & Trigonometry: distance between points, midpoints, 3D shapes, angles between lines and planes, right triangle trigonometry (sin, cos, tan), sine & cosine rules, area of a triangle using trigonometry, applications of trigonometry

Statistics & Probability: sampling techniques, outliers, presentation of data, measures of center and spread, linear correlation and regression, probability of an event, Venn diagrams, conditional probability, independent event, mutually exclusive event, discrete probability distributions, binomial distribution, normal distribution

calculus: derivatives and their link to behavior of functions, tangents and normal, integration

Comparing the A & A SL syllabus and the A & A HL syllabus, we notice that in the HL course, the topics are studied in more detail and in more depth. Both courses are assessed with an internal assessment and external assessments. The internal assessment for SL and for HL is a so-called exploration where a topic of your own choice is studied and a report about this study is produced.

The external assessment for the SL course consists of a Paper 1 exam that is completed without a calculator and a Paper 2 exam for which a calculator (Graphic Display Calculator) is needed. The external assessment for the HL course also consists of a Paper 1 without calculator and a paper 2 with calculator but for this course there is a Paper 3 where the acquired maths skills and problem-solving skills are needed to solve a set of unfamiliar problems.

Comparing the A & I SL syllabus with the syllabus for A & A SL, we notice that there are some differences within the topics. These differences are mainly in Geometry and in Statistics & Probability.

A & I SL has, just like the A & A courses, an internal assessment in the form of an exploration.

The external assessment consists of a Paper 1 and a Paper 2. For both Papers, a calculator is required. The difference between Paper 1 and Paper 2 in this course is that Paper 1 consists of a number of short questions where paper 2 has longer questions and different parts of the syllabus are combined in one question.

The main difference between the Analysis & Approaches courses and the Applications & Interpretations course is the emphasis.

Mathematics A&I emphasises the meaning of maths in context by focusing on applications and modelling,

Mathematics A&A emphasises the ability to construct, communicate and justify correct mathematical arguments.

- Students who choose A & I SL enjoy seeing mathematics used in real-world contexts and solving real-world problems.

- Students who choose A & A SL should be comfortable in the manipulation of algebraic expressions and enjoy the recognition of patterns and understand the mathematical generalisation of these patterns.
- Students who choose A & A HL will have strong algebraic skills and the ability to understand proofs. They will be students who enjoy spending time with problems and get pleasure and satisfaction from solving challenging problems.

Maths A & A Higher Level

What will I learn to do?

You will develop mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. You will also explore real and abstract applications of these ideas, with and without the use of technology.

What skills do I need to study this subject successfully?

You need to have a good feeling for numbers. You will need to put in a lot of effort to cope with increasingly difficult problems and with the speed at which we cover the topics. Most importantly, you need to enjoy the thrill of mathematical problem solving and generalization.

This subject will be difficult if you are not prepared to work hard. You should have done well in MYP5 Maths Extended to be successful in Maths A & A HL, especially in criterion A and B.

You must have Maths A & A HL for the following degree courses for a Bsc at science universities:

Mathematics, science, computer science, physics, engineering, architecture, econometrics, degree courses at technical science universities.

Maths A & A Standard Level

What will I learn to do?

You will develop mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. You will also explore real and abstract applications of these ideas, with and without the use of technology.

What skills do I need to study this subject successfully?

Some analytical skills and problem-solving skills. You will have to be prepared to work hard and not give up easily. You should be decent at criterion B from MYP mathematics.

This subject will be difficult if you are not prepared to work hard. You should have done well in MYP5 Maths Standard or done ok in MYP5 Maths Extended to be successful in Maths A & A SL. You should be able to do basic calculations without a calculator.

You must have this subject for the following degree courses: Economics, Business, IBA and other business, management or economics related courses, especially at Dutch universities.

This subject is desirable for the following degree courses: geography, psychology.

Maths A & I Standard Level

What will I learn to do?

You will develop your mathematical skills for describing our world and solving practical problems. You will also harness the power of technology alongside exploring mathematical models.

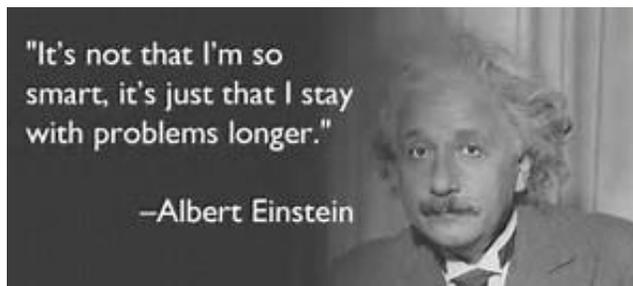
What skills do I need to study this subject successfully?

Some analytical skills and problem-solving skills. You will have to be prepared to work hard and not give up easily. This course will focus on applications, so you should be decent at criterion D from MYP mathematics.

This subject will be difficult if you do not put in the work and effort required. You should have done OK in MYP5 Maths Standard to be successful in Maths A & I SL.

My choice for Group 5 Maths is:
.....

Another Maths course I would consider is:
.....



Group 6

The Arts or Free Choice from previous groups, except Maths

For Arts, we offer:

Visual Arts HL/SL

Music HL/SL.

If you have no interest in the Arts, choose another **Language or a Science or an Individuals and Societies subject in group 6.**

Name of subject: Visual Arts Higher and Standard Level

What topics will I study?

The VA course consists of three main areas:

- Theoretical: you will examine and compare the work of artists from different times, places and cultures. You will look at different techniques for making art.
- Art-making: you will make art through a process of investigation, thinking critically and experimenting with techniques.
- Curatorial practice: you develop an informed response to work and exhibitions you will see and experience.

At the start of the year, we'll do a lot of short assignments and workshops mostly teacher driven. Later you will develop your own focus and theme.

What will I learn to do?

You will learn to apply identified VA techniques to your own developing work. You will explore ways of communicating through visual art and written means. You will learn how to reflect on your own process of creating

and how to select and present resolved works for exhibition. You will learn to formulate personal intentions for creating and displaying your own work.

What skills do I need to study this subject successfully?

First and foremost, you need investigative skills. You will have to develop an independent and integrated approach towards your work. You need to show breadth and depth in your research (both written and visually) while making connections to work of others. You need deliver informed artworks which demonstrate that you can critically discriminate between the quality of work produced by you and that of others using the specialist vocabulary of visual arts.

This subject will be difficult if:

You don't dare to think outside the box, and you are waiting for others to tell you what it is you have to create. It asks for independent decision making and perseverance to arrive at "original" and meaningful studio work which is underpinned by research.

You must have this subject for the following degree courses:

It comes in handy if you plan to pursue a career in any design related profession, such as architecture. Also, science courses value creative design. It is not uncommon for students opting for a Technical University, also to have Visual Arts. Creativity doesn't apply to visual arts only, rather it is a mental concept.

This subject is desirable for the following degree courses: Design and Art courses, but also science courses which require creative work. Having a portfolio and research workbooks that demonstrate your research and thinking are a tremendous plus for whatever course.

Name of subject: Music Higher and Standard Level

As from 2020-2021 ISRLO will also be offering Music. Studying Music is also about ensuring that students develop a deep, life-long connections between their passions and interests and the wider world of music and music-making. Music in DP is a **practical course**, it is all about **making and creating music**. All music theory and explorations of contexts (cultures, styles, genres, history) is rooted in your own music practice.

What will I learn to do?

Throughout the music course, you focus on three roles: the **researcher**, the **creator** and the **performer**. In these roles, you inquire, create, perform and reflect on three 'musical processes':

- Exploring music in context
- Experimenting with music
- Presenting music

The course offers you a personalized unique approach to music. The course will also broaden your horizon and include music that you never heard before. For **Higher Level** students will also engage in contemporary music-making and submit a continuous multimedia presentation documenting their real-life project.

What topics will I study?

You will make a music portfolio, consisting of both original and existing pieces of music, and an extensive journal in which you keep track of your learning: it has all the information about the music you create and play/sing and all the research you did about music.

To give your explorations more focus, the IB presents **4 Areas of Inquiry**:

1. Music for sociocultural and political expression.

Think about: protest songs, church music, national anthems

2. Music for listening and performance.

Think about: chamber music of the Western art tradition, cool jazz, experimental music

3. Music for dramatic impact, movement and entertainment.

Think about: music for film, ballet or musical theatre

4. Music technology in the electronic and digital age.

Think about: electronic dance music, technology in popular music production.

As you can see, some of these topics are dealt with in the current MP5 course (Term 1: experimental music, music for film term 3: protest songs/music technology).

What skills do I need to study this subject successfully?

You must be prepared to make music part of your life, inside and outside school. This means you must practise regularly on your instrument or practise singing, listen to and research all kinds of music, experiment with music, alone and together with your classmates. Learn to listen with a critical ear, take risks, and enjoy making music thoroughly.

This subject will be difficult if:

You do not want to invest time in your music practise, or if you are not prepared to document your progress in your portfolios.

The subject is highly desirable for the following degree courses:

Bsc at a Royal Conservatoire – as part of the audition, you must pass a musical ability test and submit a music portfolio.

My choice for group 6:

(Choose from: Visual Arts, Music, another language, another science subject, another Individuals and Societies subject)

Is there a second option I could consider?

Choosing a 7th subject:

- A 7th subject is not part of your IB Diploma
- For students who need all 3 sciences, a 7th subject is required. The IB Diploma has 6 subjects and for the 7th subjects the student will get a certificate. Students who wish to study medicine or biomedical sciences can request a **non-regular Diploma** in term 1 in DP1. The DP coordinator will inform you about the option to request a non-regular IB Diploma in DP1.
- Other reason for choosing a 7th subject: you are academically a very strong student, and you need the extra challenge. For the majority of students, it is best to stick to 6 subjects.

Use the overview on the next pages to select your subjects for the IB Diploma Programme at ISRLO:

Group 1: Studies in Language and Literature – obligatory

Group 1	HL	SL	
Choose one language			<i>*We offer other mother-tongue languages as a school-supported self-taught course at Standard Level, such as Russian A Literature SL or Hindi A Literature SL or Spanish A Literature SL or Bulgarian A Literature SL etc.</i>
English A Literature			
English A Language and Literature			
Dutch A Language and Literature			
Self-taught Language			Language:

Group 2: Language acquisition - obligatory. Note: a student can also choose a language from Group 1. Popular combinations: English A (Group 1) and Dutch A (Group 2).

Group 2	HL	SL	
Choose one language			For French, Spanish or Dutch, please talk to your teacher for the right level.
Dutch B			
Spanish B			
French B			
English B			
Language Ab Initio			<i>We offer French, Spanish and Mandarin. Talk to the careers counsellor if you are interested in this option.</i>
Self-taught Language A Literature			<i>Next to the Self-taught Literature A we 3 Ab Initio languages for students who have no other 2nd language available. They are Spanish, French or Mandarin Ab Initio and for these languages there is an additional fee. Please talk to the career counsellor if you are thinking of doing an Ab Initio course. Ab Initio means you have no prior knowledge of the language and will be learning it from scratch.</i>
Or Dutch A			<i>So, Dutch A SL or HL</i>

Group 3: Individuals & Societies (Humanities) – obligatory

Group 3	HL	SL	
Choose one subject			<p><i>Do not choose both Economics and Business. In the Netherlands students without Business or Economics can still follow a Bsc course in these subjects provided they take Maths A & A SL or HL.</i></p> <p><i>*Please note, ESS is a trans-disciplinary subject which may be taken in Group 3 or Group 4 and it counts as both a science and a humanity</i></p>

History			
Economics			
Geography			
Business Management			
Environmental Systems and Societies (ESS)*			

Group 4: Sciences: obligatory

Group 4 Choose one subject	HL	SL	<i>* Please note ESS is a trans-disciplinary subject which may be taken in Group 3 or Group 4 and it counts as both a science and a humanity.</i>
Biology			
Physics			
Chemistry			
Environmental Systems and Societies (ESS)*			

Group 5: Mathematics – obligatory

Group 5 Choose one Maths course	HL	SL	
Mathematics A & A: MAAH or MAAS			
MAIS - Mathematics A & I			

Group 6: Elective – obligatory

Choose one course	HL	SL	<i>Alternatively, it is possible to choose a second humanity, a second science or a third language (selected from the choices offered in groups 1 – 4.</i>
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			<i>If ESS is chosen in group 3 or Group 4, it is possible to select Visual Arts/Music or another Elective from the list.</i>
Visual Arts			
Music			
Other: Individuals and Societies			Subject:
Other: Science			Subject:
Other: Language			Subject:

Extra: 7th subject - It is possible to study an additional 7th subject from any of the Groups above, **with the exception of Group 5 (Mathematics)**. A 7th subject is **not** part of the IB Diploma. Instead, **an IB certificate** will be issued.

7th Subject: choose a subject from Group 1 – 4 or Visual Arts/Music	HL	SL	<i>A student who wishes to study medicine in the Netherlands needs Bio HL, Chem HL and Physics SL (as a 7th subject). Early in DP1 the student can make a request for a non-regular diploma. This will allow the student to drop the Humanity in DP2 and bring the 3rd science inside the subject package.</i>
Subject:			

Some Suggested Subject Packages

You should choose your own subject package based on your own strengths and interests, but here are a few suggested subject packages which make sense if you already have a clear idea of what you would like to study later.

Bilingual Engineering Package

Higher level	Standard level
Maths A&A	English A Lang and Lit
Physics	Dutch A Lang and Lit
Chemistry	Economics

Note: This package keeps many doors open. With both English and Dutch Lang and Lit you will get a bilingual diploma so could apply for a course taught in English or in Dutch. Having chemistry as your 3rd higher level subject keeps open the option of chemical engineering and the combination of Maths A & A HL and economics SL means that in addition to being prepared for an engineering degree you could – if you change your mind – apply for a Bachelor's in Economics (IBEB or IBA)

Medicine Package for the Netherlands (Note: For Belgium you need Dutch A HL)

Higher level	Standard level
Biology	English A Lang and Lit
History / Economics / Geography	Dutch A Lang and Lit
Chemistry	Maths A & A

Plus 7th subject: Physics Standard Level

Notes: This package means you can apply to study medicine in the Netherlands. In other countries it may be possible to study medicine with only two sciences.

Choose which humanity you are most interested in, although you can request a non-regular diploma in term 1 in DP1, and eventually drop the humanity in DP2, so that Physics is brought inside your diploma. **The request for a non-regular diploma must be made early in term 1 in DP1.** Mr Symmons, the DP coordinator, will inform you at the start of the year.

Business and Economics package

Higher level	Standard level
Economics	Maths A & A
History	Physics or Chemistry
English Literature or Language and Literature	Dutch B

Note: Econometrics courses requires maths HL

Humanities Package

Higher level	Standard level
Geography	Maths A & A or Maths A& I
History	Dutch A
English Literature or Language and Literature	Biology SL

Note: this is just a suggestion. You may find that some subject combinations will not be possible due to subject clashes.

Languages Package

Higher level	Standard level
English A Literature	Ess - This subject is in the science box and the individuals and societies box, so you can choose a third language in your subject package.
Dutch Lang Lit	Maths A & A or Maths A & I
French B or Spanish B	Visual Arts

Note: this package is heavily weighted towards the languages.

Arts Package

Higher level	Standard level
Music	Maths A & I
History	Dutch Language and Literature A
English Literature or Language and Literature	Biology or Ess

Note: this package would suit a student who was interested in art, art history, languages and literature.

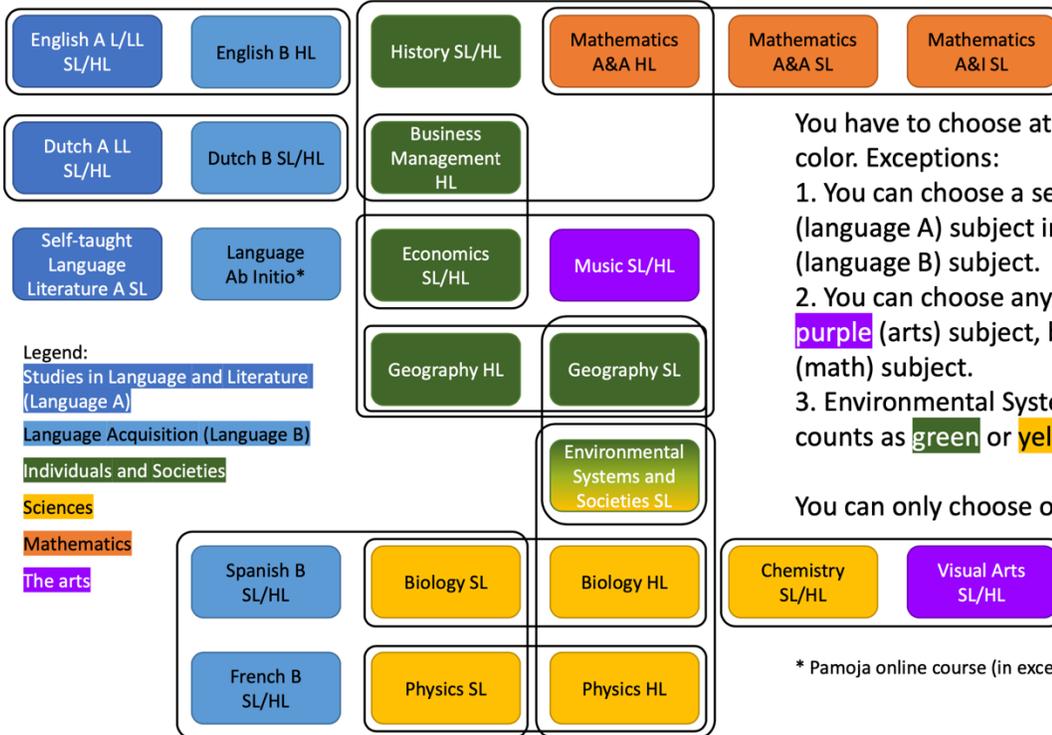
Architecture Package

Higher level	Standard level
Maths A & A	English Lang and lit
Physics	Dutch Lang and lit
Visual Arts	Economics

Note: this package would keep open the paths to architecture, engineering and economics.

Extra: Interested in **computer programming**? Check out Codam. www.codam.nl

ISRLO Clusters 2022-2023:



You have to choose at least one from each color. Exceptions:

1. You can choose a second **dark blue** (language A) subject instead of a **light blue** (language B) subject.
2. You can choose any subject instead of a **purple** (arts) subject, but not an **orange** (math) subject.
3. Environmental Systems and Societies (ESS) counts as **green** or **yellow**, or both.

You can only choose one from each group.

* Pamoja online course (in exceptional circumstances only)

Your CHOICE OF SUBJECTS - Preliminary List

Please discuss your subject choices with your parent(s)/guardian(s)/tutor/subject teachers.

Now the short version of your chosen subjects.

- Please check the list of Clusters and the number of Highers!
- You must have at least of one Language A

GROUP	SUBJECT CHOSEN	Indicate HIGHER or STANDARD
1. Language A		
2. Language A or B		
3. <i>Individuals and Societies*</i>		
4. <i>Science</i>		
5. <i>Mathematics</i>		
6. <i>Music, Vis Arts, or Free Choice (Gr1,2,3, 4)</i>		
<i>(7th Subject for a certificate)</i>		

* Never choose both Economics and Business in your subject package.

YOU MUST COMPLETE THIS SECTION! EXPLAIN THE REASONS FOR YOUR CHOICES.

1. INDICATE POSSIBLE AREAS OF STUDY/CAREERS YOU ARE INTERESTED IN and why this subject package is right.

.....

2. If you have 4 Highers, say why.

.....

3. If you have a 7th subject, say why you need a 7th subject.

.....

The deadline preliminary subject package DP on Zermelo is 8th February 2023.

Submit preliminary DP subject package via Zermelo, bearing in mind the subject clusters.
Instructions will follow.

Well done, you! You really fit the IB Learner Profile!

The MP4 careers workbook was less than 20 pages. You have now done double the amount of work in MP5. I hope the MP5 Careers Workbook, your Service and Action activities and your Personal Project have helped you set your own personal goals. Good work ethics and excellent planning are the key to success.

Based on the IB Learner Profile, IB learners strive to be:

- Inquirers
- Knowledgeable
- Thinkers
- Communicators
- Principled
- Open minded
- Caring
- Risk takers
- Balanced
- Reflective



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**The deadline for the final DP subject package on Zermelo is 12th April 2023.
(Parental Approval on 14th April)**

 *Ms Lamers Careers Counsellor ISRLO – a.lamers@rijnlandslyceum-rlo.nl*

Walk-in breaks: check at room N101.

Sign up for a meeting using the form on my office door n101.