



# **S3 Personalisation Options**

**Information Booklet  
2021 to 2022**



In S1 and S2 students will have experienced Faculty Common Courses and Subject Specialist Courses from all areas of the curriculum. As students progress into S3 we will be asking them to make subject choices within Faculty areas. As current S2 students have had a disrupted experience in both S1 and S2 then there is a need to improve their depth of experience in S3. This will not affect the choices that the students take in S4. This will allow students to continue to have as broad an experience as possible in each Faculty before focussing on certificate courses in S4-6.

The table below summaries the choices open to students

<b>Faculty</b>	<b>Subjects to choose from</b>	<b>Number of subjects to choose</b>
Social Subjects	Geography History Modern Studies	1
Science	Biology Chemistry Physics	1
Technologies	Graphic Communication Digital Skills Design and Manufacture Business Education Computing Education	1
Expressive Arts	Art and Design Drama Music Music Technology	1
Modern Languages	German French	1
Health and Wellbeing Or Free Choice from choices above	Religious, Moral and Philosophical Studies (RMPS) Home Economics Physical Education	1
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# Social Subjects Faculty – Choice 1

In each of the faculties students will be asked to select 1 of the subjects to study in S3. Students will therefore be able to study **three periods** a week for **one subject** within this faculty. Students will also have the option to personalise in one of the following Health & Wellbeing subjects: Religious, Moral and Philosophical Studies (RMPS), Home Economics and Physical Education (Choice 6 and Choice 7) **OR** choose additional subjects from the first 5 Choices, therefore students will be able to take 2 subjects or even 3 subjects from a specific faculty.

## Geography

Topics studied include:

- Glaciated landscapes – exploring a dramatic physical landscape and linking it to our climate change topic.
- Climate change - one of the most significant *environmental* challenges facing humankind today. Essential we look at how *Geography can contribute to understanding and managing this issue*.
- Climate zones – A chance to study vegetation, animals, climate and the lives of people in other parts of the world.
- Industry and globalisation – looking at the location of industry and moving on to look at Transnational Corporations.
- Urban – mapping skills and much more.
- Weather and climate

## History

### The Atlantic Slave Trade

Topics include:

- The reasons for the Slave Trade
- The experiences of the slaves in Africa, during the Middle Passage & on the Plantation
- The impact of the slave trade on Britain & the Caribbean
- The work of the Abolitionists

### WWI

Topics include:

- Causes of the Great War
- Experiences of soldiers on the Western Front
- Impact of War on the Home Front

### Hitler & The NAZIS

Topics include:

- The impact WWI had on Germany
- Hitler's rise to power
- NAZI Germany - the treatment of different groups

## **Civil Rights in the USA**

Topics include:

- Jim Crow Laws & the 'Separate but Equal' ruling
- The actions of the KKK
- The Civil Rights Campaigns
- The campaigners - Martin Luther King, Malcolm X & the Black Panthers

## **Modern Studies**

### **It's a Mad, Bad World!**

Topics include current international issues as well as any major world event that may take place at the time:

- North Korean Dictatorship, Syrian Refugee Crisis, Mexico and Drug Cartels, Black Lives Matter, Influence of the Media, Genocide, Middle East and North Africa (MENA) Conflict, Globalisation, Development Indicators and the United Nations.

### **Crime and the Law**

Topics include:

- Why people commit crime, types of crime, the role of the police and courts, punishments, life in prison.

## Science Faculty – Choice 2

In each of the faculties students will be asked to select 1 of the subjects to study in S3. Students will therefore be able to study **three periods** a week for **one subject** within this faculty. Students will also have the option to personalise in one of the following Health & Wellbeing subjects: Religious, Moral and Philosophical Studies (RMPS), Home Economics and Physical Education (Choice 6 and Choice 7) **OR** choose additional subjects from the first 5 Choices, therefore students will be able to take 2 subjects or even 3 subjects from a specific faculty.

### Biology

In S3 students will build on their learning from S2 to develop a deeper understanding of the human body including; eyes, ears, bones, muscles and the nervous system. Students will then cover the topics Cell Biology and Life on Earth to prepare them for further studies in Biology in S4. Throughout the year students will develop problem solving, research, practical and experimental design skills.

Topics covered:

#### Sport Science

This topic looks at how the human body is built for activity and will involve practical work to measure aspects of sporting performance. We will also study the structure of the eyes, ears, bones and the nervous system.

#### Cells

Cells are the building blocks of life and it is important for Biologists to have a good understand of their structure and function. We will look at the differences between plant and animal cells, microorganisms, cell membranes, and the important processes of diffusion and osmosis. We will also learn about DNA and the production of proteins.

#### Life on Earth

This topic is a study of Environmental Biology. It involves the study of ecosystems and how living things depend on each other for survival. We will also look at the impact that we have on our on the environment and how our actions have an effect on the environment.

### Chemistry

The S3 Chemistry course gives students the opportunity to carry out investigations and research tasks on a variety of topics including: Fuels, Hydrocarbons, Everyday consumer products and Products from plants. Students will have opportunities to develop new practical skills, as well as consolidating skills from previous learning.

This course allows students to experience a wide range of Chemistry issues relevant to everyday life. By covering common core areas of both National 4 and National 5 Chemistry, it also allows progression to a National 4 or 5 qualification in S4 for students wishing to further develop their skills and understanding of the subject.

Topics covered:

### **Fuels**

Formation of oil, the use of fuels and their environmental impact on the carbon cycle, alternative energy sources including biomass, energy calculations

### **Hydrocarbons**

Fractional distillation, cracking and hydrocarbon families

### **Everyday consumer products**

Alcohol, carbohydrates, competing demands for carbohydrates as food or fuel, uses of alcohols and carboxylic acids, making esters

### **Products from plants**

Practical based activity on products derived from plants which have enhanced everyday life.

## **Physics**

Students are introduced to a broad range of topics in Physics. Students will gain a better understanding of the importance of Physics in the world around them. The course will also form the basis for any further study in S4. This course will also give opportunities for students to develop their practical skills and conduct investigations.

Topics covered:

### **Newton's Laws**

In this topic, we will cover inertia, Newton's Laws of motion, speed and acceleration, and balanced and unbalanced forces.

### **Electricity**

Here, we will learn about fuses, power, circuit symbols, series and parallel circuits and their uses in everyday life, resistance and Ohm's Law.

### **Radiation**

In this section, we look at types of radiation and their effects (including natural and artificial sources of radiation), researching the uses of nuclear radiation in society and debating the future of nuclear energy.

### **Space**

Here, we will cover space exploration which looks at telescopes and our current understanding of the universe as well as advantages and disadvantages of space exploration.

## Technologies Faculty – Choice 3

In each of the faculties students will be asked to select 1 of the subjects to study in S3. Students will therefore be able to study **three periods** a week for **one subject** within this faculty. Students will also have the option to personalise in one of the following Health & Wellbeing subjects: Religious, Moral and Philosophical Studies (RMPS), Home Economics and Physical Education (Choice 6 and Choice 7) **OR** choose additional subjects from the first 5 Choices, therefore students will be able to take 2 subjects or even 3 subjects from a specific faculty.

### **BUSINESS -WHY CHOOSE BUSINESS?**

- ▶ Businesses are part of our day-to-day lives, from the bottle of juice you bought a lunch time, the phone you use to check social media, or the TV subscription that lets you watch your favourite programmes when you get home from school, all were created by a business.
- ▶ It is likely that we will all end up working for a business, and we will certainly come into contact with them on a daily basis.
- ▶ Wouldn't it be great to have a better understanding of how businesses work and give you an advantage over your peers?

### **WHAT WILL I LEARN?**

There are 6 topic areas covered in the S3 business course:

- ▶ Understanding Business – build on your knowledge and understanding from S2 becoming a real business expert!
- ▶ Marketing – try out some of your favourite brands, and try your hand at creating an advert for some of the UK biggest businesses.
- ▶ Operations – find out how some of your favourite products are made and have a go at some of the different production methods.
- ▶ Human Resources – Give yourself a head start getting your dream job, learn about how businesses go about hiring the right person for the job and how you can stand out from the crowd when it comes to finding a job.
- ▶ Coca Cola – Using your enterprise and creativity skills help Coca Cola come up with an exciting new juice brand.
- ▶ Investigating a business – Find out more about a company of your choice. Using your business expertise you will help them improve their business.

## WHAT SKILLS WILL I DEVELOP?

LOADS! There's a huge list of different skills that the content of the S3 course will help you develop as well as making sure you develop skills which will help you to be successful in National 5 subjects.

- Ability to learn and adapt Business and Enterprise Skills
- Communication Skills
- Creativity & Enterprise Skills
- Decision making skills
- Interpersonal Skills IT Skills
- Negotiation Skills
- Numeracy
- Organisation Skills
- Problem Solving Skills
- Raised awareness of industry
- Sales and Marketing Skills
- Team working
- Using initiative Working under pressure
- Meeting deadlines



# DIGITAL SKILLS

## Why Digital Skills?

► Thinking of further education, university or employment?



► Digital skills are now embedded into the majority of jobs, however employers and education staff are concerned that school leavers do not have the appropriate software skills to enable them to progress in the world of work.



### Making the right choice!

► After speaking to employers and Developing the Young Workforce, the Technologies Faculty decided there was a need for a course to tackle this lack of IT skills.

► The Digital Skills course will give you the opportunity to develop key IT skills further.

The course will cover a range of applications including:

- ❖ word processing
- ❖ presentation
- ❖ artwork and imaging
- ❖ spreadsheets
- ❖ databases



**You think that you know these packages but you'll be amazed at what is still to be discovered and how much easier work and home life will be having these skills at your fingertips.**

# Computing

You will cover the 4 main topics of computing:

## Software Development

Within the Software Development topic, we look at creating a variety of different programs using the programming language Python. Python is one of the many programming languages used in today's computing industry and learning how to code using Python in S3 gives you a jump start in coding simple and complex programs.

## Database Development

Within the Database Development topic, we look at creating a variety of different databases using MicroSoft Access. Although there are many different database applications out there, access is one that a lot of companies use even for mundane tasks. We will also look at searching for specific information within a database in order to increase our searching and ordering skills within the MS Access application.

## Website Development

Within the Website Development topic, we look at creating a variety of different websites using the programming language HTML. We look at the design of a website and how to improve our website's look. We can create websites using the notepad application on any computer/laptop or we can use the application Notepad++ - we will look at both methods and increase our programming skills.

## Computer Systems

We will also take a look at some design and computing skills along the way.

Computing can take you in many different directions from web designer, program analyst, database administrator, animator, game designer, forensic computer analyst, web developer, network engineer and many more. Learning these basic skills in S3 can help you within any sector you choose.

## Graphic Communication

The focus of this course is Creativity and Problem-Solving in a graphic / visual communication context. Through the year there will be a range of projects which will develop your skills in a wide range of visual communication contexts from Graphic Design to technical engineering drawings. In each project you will be given tasks to develop your technical skills before having the opportunity to apply them in a creative task.

While this course aligns closest with the Graphic Communication offering in senior phase many of the skills are also relevant for Design and Manufacture or Engineering Science as well, offering pupils useful skill development for progression into a wide range of professional careers - Creative Industries, Architecture, Design and Engineering.

The range of skills / knowledge covered includes:

- 2D / 3D Manual Graphics
- Digital graphics
- 3D CAD Modelling
- Design Process
- Idea Generation and Development

This course is expected to be almost entirely classroom based although there will be opportunities of some of the 3D models being manufactured using 3D printing/computer-aided-manufacture technology available in the FabLab (Fabrication Laboratory).

## Design and Manufacture

The focus of this course is Creativity and Problem-Solving in a product design context. Through the year there will be a range of design briefs (challenges) which you will respond to in a creative manner to find a solution to the problem.

All briefs will progress through the research, sketching / modelling of ideas, and selection of final concept stages. Some will additionally progress into manufacture of the concept in the workshop.

This course develops skills for all senior phase options within the department but is most suitable for pupils who are interested in exploring Product Design careers.

The range of skills / knowledge covered includes:

- 2D / 3D Manual Graphics
- Card / block modelling
- 3D CAD Modelling
- Safe use of hand tools
- Design Process
- Design Factors (Function, Aesthetics, Customer, Ergonomics, Safety)
- Idea Generation and Development
- Understanding of materials and properties

This course will be mostly classroom based although there will be opportunities for some design solutions being turned into prototypes in the workshop or using 3D printing/computer-aided-manufacture technology available in the FabLab (Fabrication Laboratory).

## Expressive Arts Faculty – Choice 4

In each of the faculties students will be asked to select 1 of the subjects to study in S3. Students will therefore be able to study **three periods** a week for **one subject** within this faculty. Students will also have the option to personalise in one of the following Health & Wellbeing subjects: Religious, Moral and Philosophical Studies (RMPS), Home Economics and Physical Education (Choice 6 and Choice 7) **OR** choose additional subjects from the first 5 Choices, therefore students will be able to take 2 subjects or even 3 subjects from a specific faculty.

### Art and Design

#### What will I learn and what will I be working towards?

In Art and Design you will learn about the design process and undertake expressive art projects - this will help you to build up your existing skills as well as learn lots of new skills. There are lots of opportunities in Art and Design for you to make your own decisions, explore your own creative ideas and develop subject specific skills such as: painting, drawing, printing, sculpting, model making, constructing, sewing, composing, photography, digital art and computer aided design.

Skills for learning, life and work are also prevalent in the Art and Design classroom. These include developing your observation skills, fine motor skills and hand-eye coordination as well as: researching, analysing, presenting, problem solving, working independently, time management and of course communication! Throughout the course you will learn to confidently make creative decisions based on your experience, your imagination, and your knowledge and understanding of your own and other artists' and designers' work.

By studying Art and Design in S3 you will be preparing yourself for a range of different possible options in senior school, including National Qualifications and National Progression Awards in both Art and Design and Photography.

#### What is the point of studying Art and Design?

Over the last 20 years there has been an explosion of visual media, internet, video games and advertising. You are growing up in an increasingly visual world, where images and designs are used to entertain, persuade, assist, challenge, educate, and communicate. The Creative Industries is currently the fastest growing industry for future employment in the UK. However the skills you learn in the Art and Design classroom are transferable to numerous areas, both in life itself and in the world of work, for example: strong observation and fine motor skills developed through 1st hand drawing, are essential skills for surgeons! Astronauts not only have to be good at technology and science - they also have to be able to think creatively, out of the box and often under pressure! A well-presented business pitch with clear visuals, will make a successful entrepreneur stand out from the crowd and attract attention! Many students also choose to study Art and Design to support their mental health through creative activities.

#### So why choose Art and Design?

There are loads of different reasons why you might want to choose Art and Design. Maybe you really enjoy drawing, painting or making things with your hands. Perhaps you are thinking about doing something visually creative when you leave school. You might enjoy Art and Design and not feel ready to drop it yet. Maybe you really like studying designs and artworks by famous artists. These are all good reasons!

# Drama

## What will I study and what will I be working towards?

- Acting techniques, including voice, movement and characterisation
- Creating dramas from a stimulus
- Producing scripted plays – acting, directing, lighting, sound, set, props and costume

Pupils will learn to think and act creatively with a group and individually. They will also learn the theory behind the skills. There will be several opportunities to perform their work to an audience and learn about roles behind the scenes.

## What is the point of studying Drama?

Drama can be a very rewarding subject. It can develop valuable skills for life and nothing beats that post-performance feeling! Through Drama you can develop –

- confidence
- leadership, negotiations and compromising skills
- personal and social skills by working as part of a group
- life skills like communication, negotiation and problem solving
- creativity and imagination
- performance and presentational skills
- evaluative and analytical skills

## So why choose Drama?

There are lots of different reasons why you might want to choose Drama. Maybe you really enjoy creating, rehearsing and performing in class. Perhaps you are thinking about doing something creative when you leave school. You might have enjoyed working in groups in practical work and the creative freedom on offer in Drama. You may want to develop your confidence and presentation skills. Maybe you like the idea of exploring a range of production skills: acting, lighting, sound, set design, costume design or make up. These are all good reasons. It is good fun and rewarding seeing your work go from the initial ideas and creation to the development, presentation and evaluation of a project.

# Music

## **What will I study and what will I be working towards?**

In Music you will learn to recognise and play a variety of musical styles. You will develop your skills on two instruments or one instrument and voice; and you will be provided with opportunities to perform and develop these skills. You will learn basic theory skills alongside learning about different styles of music and how to recognise the concepts used in them. You will also develop creative skills through various composition and music technology projects.

## **What is the point of studying Music?**

Music is all around us - on the radio, on TV and film, in games... I'm sure you've probably heard music already today! It's something we can all relate to and helps us express ourselves. Through listening to different styles you will learn techniques and concepts that are used to do this. In Music you will also learn skills on two instruments and have the opportunity to perform on them as well as developing your own creative ideas through composing and improvising. Music is about so much more than just performing though, it is a subject that uses creativity, imagination, problem solving and will help develop self-confidence, analytical skills, independence and responsibility - all valuable tools, whatever walk of life you are interested in pursuing.

## **So why choose Music?**

If you enjoy playing music, performing and being on stage then you will enjoy this course. Choose Music if you enjoy listening to music and want to learn more about how it works - no matter if you like pop music, classical music, film & TV music or game music. Choose Music if you enjoy being creative - there will be opportunities for you to develop your own creative ideas through composing and improvising. You might also learn music technology skills through using computers, equipment and software to create and record music. Music can help you build your problem solving, research, planning, analytical and critical thinking skills, as well as your creativity. Not to mention discipline, composure under pressure, time management, communication, team and individual working ability - all gained from practice and performing in a practical and creative setting.

# Music Technology

## **What will I study and what will I be working towards?**

Music Technology is a relatively new and exciting course which has only been in existence since 2014. In Music Technology, you will focus on learning about how to create and record audio for several different contexts such as music for film and TV, music and sound for computer games, recording a band in a recording studio, creating podcasts and radio shows, creating music videos and video editing skills. You will also learn about the basics of the music industry and learn how to create content for Spotify, Youtube, Soundcloud etc. You will have full access to the school recording studio and will be shown how to operate the specialist equipment used in recording music. By studying Music Technology you will have the opportunity to perform and work behind the scenes of school shows, Christmas concerts, recital evenings, live lounges, podcasts and all other live and online concerts hosted by the school. There is plenty of progression available in this subject as Dunbar Grammar is one of the only schools in Scotland to offer Music Technology up to Advanced Higher level. You do not have to be able to play any instruments to take this course but a keen interest in music, sound and technology in general is advised.

## **What is the point of studying Music Technology?**

The music industry contributes £5.8 billion to the UK economy each year and is ever expanding with new avenues for creativity and technology. Nowadays, being a musician or being involved in the music industry is no longer just about being able to play an instrument or perform. There are lots of other fascinating career paths which will be explored in Music Technology. You will learn practical, applicable skills that are used every day by professionals working in the media industries. You will learn skills associated with being a recording engineer, a voiceover artist, a foley artist, a music producer, a DJ, a sound designer for film and computer games, a live recording engineer, a radio/podcast host, a video editor and a content creator. It is an extremely practical subject which allows you to be creative and explore things that interest you on a deeper level.

## **So why choose Music Technology?**

Music Technology allows you to access countless career paths. If you have ever considered working in the TV/Film/Radio/Podcast/Music/Computer Games Industry, then Music Technology explores all the skills required to access these jobs. It is one of the most creative subjects in school and can be tailored to exactly what you are interested in. If you like Music but don't enjoy performing, this subject is for you. If you want to be involved working behind the scenes of large school events, this subject is for you. If you enjoy films and computer games and want to learn more about how sound is used in these mediums, this subject is for you. If you enjoy creating your own music and want to learn how music is recorded and released, this subject is for you!

## Modern Languages Faculty – Choice 5

In this column, you will select either **French or German** to continue studying that language in S3. You will study the language you choose for **three periods** per week.

If you would like to continue with **both languages**, this is possible, as you also have the option to personalise in one of the following Health & Wellbeing subjects: Religious, Moral and Philosophical Studies (RMPS), Home Economics and Physical Education (Choice 6 and Choice 7) **OR** choose additional subjects from the first 5 choices.

Students who choose to continue with both **French and German** will study **three periods** per week for **each language**.

### French and / or German

Learning a language enables you to make connections with different people and their cultures and to play a fuller part in your role as a global citizen. Learning a language develops skills that contribute to your future employability.

This course will build upon the skills and knowledge gained within your lessons in S1 – S2. It will expand on the important building blocks of the language to enable you to become confident in using and understanding French and/or German.

The course will develop your skills through topics such as Family, Where I Live, Free Time, School Life and Holidays.

## Health and Wellbeing Faculty – Choice 6 & 7

In each of the faculties students will be asked to select 1 of the subjects to study in S3. Students will therefore be able to study **three periods** a week for **one subject** within this faculty. Students will also have the option to personalise in one of the following Health & Wellbeing subjects: Religious, Moral and Philosophical Studies (RMPS), Home Economics and Physical Education (Choice 6 and Choice 7) **OR** choose additional subjects from the first 5 Choices, therefore students will be able to take 2 subjects or even 3 subjects from a specific faculty.

### Religious Moral and Philosophical Studies (RMPS)

The S3 personalisation choice in RMPS will build upon knowledge gained within core RMPS in S1 – S3. Students will also develop the ability to engage in meaningful discussions and generate well informed values.

#### **An Introduction to Morality**

- Capital Punishment
- Animal Rights in the 21st Century
- Medical Ethics

#### **Religion. Morality and the Media**

- Should the media have a moral responsibility?
- The impact of the media on society

#### **Philosophical Questions**

- Ultimate Questions and their importance

#### **Research Project**

- The chance to choose your own Moral, Philosophical or Religious issue to research in depth and present your findings.

### Home Economics

The S3 course in Home Economics will continue to build on valuable skills for learning, life and work.

Students will:

- Continue to build on their practical cookery skills from S2, with more complex recipes. This will help to develop learner's organisational, planning and time-management skills.
- Continue to build on their knowledge of nutrition and healthy eating from S2.
- Learn about the Food Product Development process and have the opportunity to develop and evaluate their own brand new food product.

Follow this link to hear a little more about our course: <https://youtu.be/smk4N2kO3p0>

## Physical Education

This course is for learners who have a genuine interest in Physical Education who are prepared to work hard to improve their own fitness, performance & understanding of physical activity.

The areas which will be covered:

### Cycle of Analysis

Develop the learner's understanding of the stages of the cycle of analysis; investigate, analyse, develop, and when each stage is used.

### The Four Factors

Develop an understanding of the four factors; physical, mental, emotional, and social and how these impact our performance in our chosen physical activities.

### Data Collection

An introduction into standardised testing and allow for learners to record data on their own ability to identify strengths and areas for development in relation to their chosen sport.

### Training Programme

Develop a tailored training programme for the learners' chosen sport using the knowledge they have gained around the cycle of analysis to develop their chosen factor.

### Theory Work

An introduction into the theoretical side of PE in the form of end of term homework and classroom-based periods.