

Grove Academy



S2-S3

Course information Booklet

2019/20

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Art and Design S3:

The S3 course builds on pupils' knowledge, understanding, and practical skills based on the experiences and outcomes of the expressive arts from the Broad General Education. During this time pupils will develop their ability which forms the foundation of skill required for the National 4 and National 5 courses.

Pupils are offered a range of opportunities through various bodies of work that will help to develop and refine their skills working along the structure of national 5 course – Research & Investigation, Developing, final outcome and evaluation of their work and process. Pupils will also undertake a study of the work of artists and designers.

S3 course fundamentals are to strengthen pupils drawing practice, allowing them to experience hands making to develop their practical skills with a wide range of materials and media. Projects in Art & Design focus on developing personal inquiry skills in developing abilities in visually communicating, recording information, to provide an opportunity to respond as an individual and personal interpretation.

Pupils will cover a range of unit:

Expressive units:

Basic drawing skills – 6 weeks

Still Life project – 6 weeks

Landscape / Built environment – 8 weeks

Design units:

3D making – 9 weeks

Basic design techniques – 7 weeks

Graphic design – 11 Weeks



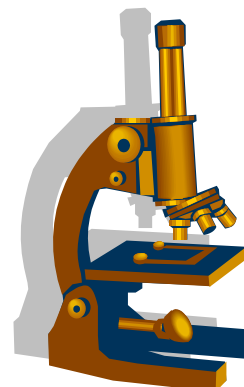
Biology

Biology is the study of living organisms. The subject plays a crucial role in our everyday existence, and is becoming increasingly important in the modern world.

The S3 Biology course is divided into two Units at CfE level 4.

In Unit 1- **Cell Biology** you will learn about:

- The structure of animal and plant cells.
- How substances transport into and out of cells.
- How cells grow and repair and the role of cell division.
- The use of enzymes and microorganisms in biological industries.
- What factors can affect plants from photosynthesising.
- Respiration and the need for energy to survive.
- DNA and inheritance.



In Unit 2 -**Multicellular Organisms** you will learn about:

- The difference between sexual and asexual reproduction and their importance for survival of species.
- Propagating plants.
- How plants grow and the conditions required for growth including fertilisation.
- Growth and development of different organisms by studying animal and plant life cycles.
- How chemicals can impact the growth of animals and plants.
- Biological actions and responses and how organisms maintain body conditions.

Learning in Biology will enable you to:

- Develop an understanding of the living world.
- Develop the skills of scientific inquiry and investigation using practical techniques.
- Develop skills in the accurate use of scientific language and equations.
- Recognise the impact the sciences make on my life, the lives of others, the environment and society.
- Express opinions and make decisions on social, moral, ethical, economic and environmental issues based upon sound understanding.
- Develop as a scientifically-literate citizen with a lifelong interest in the sciences.
- Establish the foundation for more advanced learning and future careers in the sciences and the technologies.

You will take part in different practical activities to support the content being delivered.

There will also be an assessment at the end of each unit.

Progression from S3: National 4/5 Biology is available to study in S4.

Business Enterprise and IT

GET THE COMPETITIVE EDGE!

Businesses play an important role in society and we all rely on them to create wealth, prosperity and jobs.



Business Enterprise & IT aims to develop enterprise and employability skills in learners and allows them to gain a better understanding of the personal qualities and attributes required of people involved in business.

The skills and knowledge gained through this course can be transferred to personal living so that learners can manage their own personal finances with confidence and gain a better understanding of the economic situations that face their lives. Developing essential IT skills will stand learners in good stead regardless of the career path they ultimately choose and thus learners will be able to play their part in the economic and social life of the 21st century effectively.

Topics include:

Understanding Business	<ul style="list-style-type: none">• Needs & wants, goods & services, factors of production, sectors of industry, entrepreneurs, sources of finance, different types of business organisations, objectives and stakeholders.
IT Solutions for Business	<ul style="list-style-type: none">• Using Word Processing, Excel Spreadsheets, Publisher, PowerPoint and email software in a business context.
Personal & Business Finance	<ul style="list-style-type: none">• Preparing cash budgets, assets and liabilities, balance sheets, calculating profit, break even analysis – completed using Excel Spreadsheets.
Event Management	<ul style="list-style-type: none">• Developing problem solving skills and application of learning during the S3 course to complete an assignment to launch a new business. This will involve preparing a business plan (business name, logo, location, sources of finance), designing a business card and letterhead and undertaking a variety of IT based tasks using skills and knowledge acquired during the Business Enterprise & IT course.

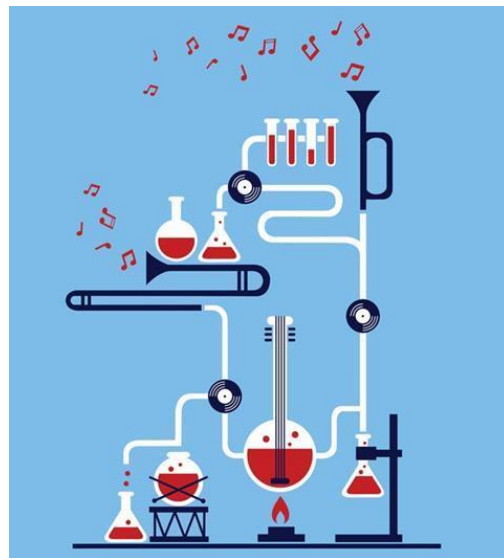
Progression: N3/N4/N5 Administration & IT, N4/N5 Business/Business Management, N5 Accounting

Chemistry

Chemistry is behind many aspects of modern life ranging from electronics to medicines. Study of chemistry is value to anyone planning to pursue a scientific or medical career and offers opportunities to develop transferrable skills needed for work and learning.

In third year we aim to develop learners' curiosity, interest and enthusiasm for chemistry by the study of the applications of chemistry in everyday settings.

The skills of scientific inquiry and investigation are developed throughout the course, and the relevance of chemistry to the world of work and its positive impacts on modern life is highlighted.



The third year chemistry course will continue to build on the important laboratory skills and knowledge and understanding of chemistry developed during S1 and S2. You will be learning about chemical topics including

- Energy changes involved in chemical reactions
- Measurement of changes in mass during chemical reactions.
- The structure of the atom
- The different ways that atoms bond together and properties of the materials
- Production of fossil fuels and hydrocarbons
- Chemical reactions of metals & uses of metals
- Getting electricity from chemical reactions
- Smart materials and polymers
- Chemicals in the environment.

You will have opportunities to contribute to projects and presentations in addition to carrying out experimental work.



Your progress in the subject will be gauged by written assessments and homework throughout the course.

Progression

Pupils who successfully complete the course can progress to either National 4 or National 5 chemistry. This can lead to study of Chemistry at Higher and Advanced Higher level. These are qualifications that lead to directly to employment or to university entrance.

Computing Science

Computing Science has transformed the way we conduct our daily lives and will continue to do so far into the future. It has made it possible to carry out banking transactions, check the news and watch videos using mobile devices. It is a subject with strong links to every job and career imaginable and without it most businesses and companies would not be able to function and survive. Computing Science is not just programming. It is about solving problems with computer programs.



What will you learn:

- You will learn all about modern and mobile computing and how it is used in society.
- You will learn the problem solving skills and knowledge required to program computers
- You will learn the skills required to create multimedia web pages
- You will gain a greater understanding of the digital world we live in and how to make it work for you.



The experiences and outcomes for Computing will help you develop an understanding of the need for digital information in modern society and the different ways that information can be stored, accessed and manipulated. The Computing Science course also provides opportunities to build core skills in areas such as internet research and multimedia presentation which can be directly transferred to across the curriculum helping to improve your ability and attainment in other subjects.

You will also learn how to design and write programs in different programming languages. You will learn that all applications are programs and need to be planned, designed, implemented and tested. This is the approach that is taken to games in Scratch and some simple programs in Visual Basic. You will be encouraged to compare these languages to help understand the need for each.



This course leads to National 4, National 5, Higher and Advanced Higher Computing Science.

Design & Technology

In the Design & Technology Department there are 4 subjects that can be undertaken in 3rd year. These are; Practical Woodwork Skills, Design & Manufacture, Graphic Communication and Engineering Science. A brief description of each follows. If you wish to know more, ask your class teacher to see samples of course work/ models.

Practical Woodwork Skills

This course will allow pupils to develop practical woodworking skills by making practical projects such as mug trees and clocks. Pupils will develop safe working practices in the workshop environment, an understanding of sustainability issues and practical creativity in the use of hand & machine tools. The course provides the opportunity to develop and enhance practical problem solving skills, working as part of a team, self-confidence as well as planning and organisation of work tasks.



So if you have enjoyed your time in the workshop during first and second year making mini projects and you would like to develop practical woodwork skills that will be of future use, this is the course for you.

This course is studied at National 4 & National 5.

Graphic Communication

This course will introduce the participant to communicating ideas and information through manual and computer generated drawing. Pupils will further develop their manual drawing board skills producing orthographic (two dimensional) and three dimensional drawings, and also graphs & charts. They will be involved in the creation of computer generated drawings, many of which will be rendered to make them more “realistic” including drawings of room plans, buildings and other models of their choice.



If you want a career in Graphic Design, Engineering or Architecture and would like to improve your graphic presentation skills for college or university, then this course will meet your needs.

This course leads to National 4, National 5, Higher and Advanced Higher.

Design & Manufacture

The Design & Manufacture course provides a broad practical experience in both the design of products such as kettles, furniture, vacuum cleaners etc. and the methods used to manufacture them. Pupils will also use graphic communication skills in order to meet design proposals the aforementioned artefacts. An in depth knowledge and understanding of materials, manufacturing processes and practical skills will be the core study for this course.



**CAD/CAM
Milling Machine**

Throughout the course, students will undertake a variety of design projects which are aimed at exploring the philosophy of design through engaging in the practical act of designing products. The student will learn techniques to enable them to effectively communicate their ideas through a variety of media including sketching, computer generated modelling and practical model making.



A proportion of the course will be workshop based where pupils will learn the practical skills necessary to enable them to realise their conceptual design in the form of working prototypes.

This course leads to National 4, National 5, Higher and Advanced Higher.

Engineering Science

Engineering is a broad area of human endeavour (such as oil & gas, renewables, space exploration, medical developments, construction techniques, electronic development and many more), which brings together elements of Technology, Science and Mathematics, then applies these to real world challenges. The course encourages learners to become successful, responsible and creative in the use of technologies that can be used to improve our life style. Technologies such as Programming, Pneumatics, Structures, Energy and Electronics, will be investigated and used to design and problem solve practical everyday issues.

It has been well documented that there is a skills shortage in areas such as energy and the renewables field.



PNEUMATICS IN ACTION

Engineering Science will provide an opportunity for pupils to develop the relevant skills in a work related environment that are desired by these places of employment. If you enjoyed the Engineering Science course that you have already studied in second and would like to learn more, then this is the course for you!

This course leads to National 4, National 5, Higher and Advanced Higher. Engineering Science is an accepted entrance qualification in most Universities.

Drama

Throughout S3, pupils will continue to progress through the experiences and outcomes of CfE Drama, ensuring breadth, depth and challenge of learning.

Drama helps to build confidence, communication and social skills, which are essential throughout life. Drama prepares pupils for future employment by developing their creativity skills in innovation, imagination and intuition. In our current economic climate, creativity is a highly sought-after skill. The purpose of this course is to allow students to develop Drama skills in regards to subject knowledge and understanding whilst gaining skills for learning, life and work.

Pupils who decide to study Drama in S3 will develop the following:

- Be able to respond creatively to a variety of stimuli and express ideas and opinions through drama
- Have the opportunity to lead negotiation and decision-making in-group work
- Be able to work with others to devise, rehearse and refine dramas and scripts
- Explore the use of theatre arts technology to enhance tension, mood and atmosphere in drama
- Be able to demonstrate sensitivity, precision and depth in the portrayal of character
- Be able to confidently convey relationships and situations in a variety of settings to different audiences
- Be able to respond to the experience of drama by discussing thoughts and feelings and give and accept constructive comment on their own and others' work
- Develop analytical skills exploring technical aspects of script work
- Develop self discipline and self motivation allowing pupils to become responsible citizens.

In addition to embracing a Broad General Education, pupils will also be developing knowledge and understanding and skills which will be extended in National levels 4 and 5.

English

The S3 English course continues the Broad General Education, in which learners have been working through the Experiences and Outcomes for Reading, Talking and Listening. Learners will continue to develop these skills in both familiar and new contexts, and examine a variety of texts. There will be a focus on key skills for learning, life and work.

Learners will have the opportunity to learn about:

- Scots Language (through the S3 Masterclasses)
- Skills for Work (focus on applications, personal statements, interview technique)
- Scotland in Focus (individual research, leading to a presentation)

Assessment will be continuous, with a through a Folio selection of 2 critical reading pieces (critical essay and textual analysis) and 2 pieces of writing (Creative and Discursive) carried forward to National Qualifications. In addition, there will be Reading for Understanding, Analysis and Evaluation and assignments in Talking & Listening.

Home Learning tasks will involve reading, personal reading, research, preparation for presentation, Reading for Understanding, Analysis and Evaluation, planning, drafting/re-drafting pieces of Writing.

Progression from Broad General Education in English will be to an appropriate S4 course in English at National 3, 4 or 5 (which will also incorporate Literacy at National 3, 4 or 5).

Fashion & Textiles

Pupils will plan and construct simple items of clothing, accessories and soft furnishings and will learn a range of craft skills such as tie dye, embroidery, patchwork, applique and machine embroidery.

There may be the opportunity to visit a fashion show and to organise a small fashion event back in school.

A closer look at current fashion trends will allow pupils to demonstrate their investigative skills and to produce visual displays, mood boards scrap books etc.

Progression from this course is to Nat 4 /5 and Higher Fashion and Textiles.

Pupils will have to pay £15 per year for the cost of materials used.



Geography

Geography explores the relationship between the Earth and the people who inhabit it. It studies the physical processes and human interactions at a range of scales from local to global. In S3 pupils investigate a range of topics to enhance their knowledge of the world around them, while also developing skills for the future.

It is ever more apparent in the 21st century that we need to shape the future of our planet. We cannot go on doing what we have always done: sustainability is the key.

Our S3 course covers topics that are relevant in today's society whilst preparing pupils who may wish to go on and study Geography in S4 and beyond.

Topics include:

CSI – Crime Scene Investigation: Pupils will put their map skills to the test in trying to solve a mystery.

Climate Change: We will look at the definition of, the causes of, what can be done about it and how we personally can make a difference.

The Rainforest: It is more than just the destruction of plants and animals – what about the people who live there and how their lives are at risk from major developments.

The River Tay: We see this beautiful majestic river from our classroom window every day, but where does it come from and how does it affect our daily lives?

Hazards: We focus on hurricanes, why they are happening more often and causing more destruction than ever before? Where do they occur and how can people deal with the devastation?

Visiting speakers are a feature of our S3 course, bringing experts to encourage critical thinking and trying to show how Geography relates to the world of work.

Hospitality

This course introduces the basic skills and techniques needed to study Nat 4 /Nat 5 Hospitality – Practical Cookery.

As the title suggests the course is mainly practical but will be supported by visits, talks, demonstrations and project work.

The aim of the course is to develop personal independence, life skills and skills for work in the hospitality industry

In practical lessons pupils will plan and prepare a range of savoury and sweet dishes suitable for many occasions from family meals to special celebrations with an emphasis on creative and professional presentation.

Pupils will also have the opportunity to plan and organise events such as baking for charity, afternoon tea for community groups and catering for school events e.g. Christmas Carol Concert, ceilidhs.

Pupils choosing this subject should be aware that appropriate serving dishes/ containers and payment for the cost of ingredients must be brought for each practical lesson.



Health and Food Technology

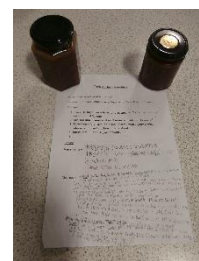
The purpose of this course is to allow students to develop practical and technological skills and make informed food, lifestyle and consumer choices which will have a positive effect on their own health and the health of others. Practical cookery skills will be developed through Food Technology based units with an emphasis on Nutrition, Dietary Targets, Product Design and Development.



Written homework will be given regularly and students will also have homework assignments to complete.

Students will be expected to provide a suitable container for taking food home and pay towards the cost of food

Progressions: This leads to a National 4/5 qualification in Health and Food Technology and offers progression to Higher Health and Food Technology.



History

"Those who fail to learn from history are doomed to repeat it". Winston Churchill

The S3 History course will focus on the theme of Citizenship. In particular, it will encourage our young people to think about how different groups of people have been treated in the past and how that shapes the world we live in today.

Native Americans: This topic gives our young people the opportunity to study the lives of Native Americans. From the Lewis and Clark expedition of 1804 to the Battle of the Little Bighorn in 1876, pupils will learn about a century of conflict between these fascinating people and the American Government.



The Russian Revolution: This topic looks at the Russian Empire between 1894-1921. During that time period, Russia went through huge upheaval. Pupils will learn about Bloody Sunday in 1905, the role of Rasputin and his influence over the Imperial family and the successful revolution of 1917.

Women and the Vote: This topic focuses on the struggle women had in order to gain the vote. It looks at the status of women in 1850, the actions of the Suffragettes and how women's efforts during the First World War changed public opinion to such an extent that they were granted the vote in 1918.



Pupils will be assessed throughout the year using a range of techniques, which are designed to build upon prior skills and prepare pupils for the senior phase in S4.

Pupils will also have the opportunity to take part in the First World War Battlefields Experience to France and Belgium.

Mathematics

The S3 Mathematics course prepares pupils for the transition into the Senior Phase in S4.

Pupils are once again working on topics appropriate to their ability and building up skills for the relevant S4 course.

Pupils will learn to

- Apply their numeracy skills in real life contexts
- Increase their algebraic skills
- Use reasoning skills in real life contexts
- Interpret statistical data
- Apply their knowledge of 2 and 3-dimensional shape in real life contexts
- Most pupils will also learn how to use basic trigonometry

Assessments will be in early October, December and March. Formative assessment will be used as appropriate in the classroom. Pupils should expect regular homework throughout S3 in addition to any classwork that needs to be completed at home.

Progression from S3 will be into the appropriate S4 course in Mathematics - Applications of Mathematics National 2 or 3, National 4 or 5 Mathematics.

Modern Languages



French and German

In S3 you will continue the study of the language which you have been learning in S1 and S2. Learning a foreign language is increasingly relevant in our world today as we become more mobile and have increased opportunities to work and study abroad.

The courses in S3 will offer you opportunities to develop and extend a wide range of skills. In particular, you will develop your ability to read, listen, talk and write in your chosen language.

Topics studied will enable you to describe family relationships, to consider your diet and how healthy it is and to market Dundee to a foreign audience to attract visitors. You will also study current films from the French and German speaking world.

All pupils will work towards achieving the SQA Award for Modern Languages in Life and Work at level 3 or level 4. If completed successfully, this leads to 15 SCQF points being awarded. All assessment in S3 is based around attaining this award.

Spanish

In addition to your study of French and German (**not instead of**), you may start to learn Spanish. The study of Spanish is becoming increasingly popular as links with Spain and the Spanish speaking world develop.

If you opt for this, you will start to learn the kind of language which you have previously learned in S1/2 French and German. You will also further develop the skills which help you to be successful in language learning and can be applied to other areas of learning.



Modern Studies

Modern Studies



S3 Modern Studies consists of investigating different social, political and international issues that affect each and every one of us. As a department we want our pupils to not only study and understand the world and society we live in but be able to build links with and engage with the world around them. We do this by encouraging links between different partner and outside agencies such as working with Pressure Groups, Trade Unions, local Councillors, MSPs and MPs. We regularly use ICT to engage pupils and more information and examples of work, extracurricular activities and department praise can be found on twitter @_GAMS_

The S3 course covers a variety of different topics which are broken down into different themes:

S3 investigation

Pupils will also carry out an investigation where personalisation and choice are key as pupils have free choice on what kind of social, political or international issue they study. This piece of work builds and embeds the skills for National 4 and 5 in S4 where pupils are asked to carry out Added Value Assignments.

Democracy: Making a Difference



This unit of work investigates the role of democracy in Scotland and the UK and focusses on looking how Pressure Groups fit into our democratic society. Pupils investigate the different ethos used by Pressure Groups including petitions, protesting and letter writing campaigns. In this unit they use a variety of skills that they could transfer into their world of work and later life including researching. Teamwork, communication and presentation skills.

Social Issues: Social Inequalities – Elderly People in the UK

This unit of work investigates the life of elderly people in our society as they are one of the UK's most vulnerable groups. The course looks at the different social, emotional and financial needs of older people in the UK and investigates how the Government and private sectors aim to help and support them. This unit of work promotes ICT skills as pupils are tasked with researching technologies that can be created to meet the needs of elderly people, in doing this pupils are also using and developing their creative skills and team working skills.



International: USA Gun Crimes and Laws



This unit of work investigates the huge impact that gun culture in the USA has not only in America but around the world. Pupils investigate different gun laws and compare them to the rights and responsibilities we have in Scotland and the UK. Pupils also investigate the impact of these laws by studying different mass shootings and the political gun control debate in the USA. This unit promotes the importance research skills as this topic is ever changing and new examples are available to them constantly.

International: Aid & Development

Pupils also investigate the differences between the UK and the developing world. This unit of work looks at the needs and wants of people around the world and investigates how different world organisations deal with the ongoing issues of poverty, famine and poor sanitation. Pupils will investigate UNICEF and look at the different rights they have and how they can make a difference with the Global Goals. This unit of work promotes global citizenship and learning for sustainability which provides pupils with the skills to be effective contributors to the wider world.



Music

Performing

Pupils will develop their skills in 2 instruments and perform as part of class ensembles. The pupil will be able to choose their pieces from a bank of music that includes everything from pop/rock to classical. Pupils will work individually and in group setting to build on and extend their performance skills on both instruments.



Composition

Pupils will develop their composition skills over the year in the form of short projects. Each topic will have a project that involves composing instrumental music and songs in groups or individually. Pupils will have access to the very latest composition software used by professionals in fields such as film and TV scoring. There will also be an opportunity to record some of their compositions using recording equipment.



Listening and Understanding Music.

Pupils will learn about many different styles of music including Pop/Rock, Jazz, Blues and World Music. This involves listening to, analysing and discussing music.

Technology

Pupils will develop their skills in recording techniques while learning to use industry standard recording equipment in our very own recording studio. In class they will be able to hone their skills using programmes such as Garageband on iPads and Mixcraft on PC's. They will learn about basic recording techniques and learn how to mix a 4 track recording.

S3 Music Technology Course

This is an exciting new course which offers creative opportunities to learn about music technology – both hardware and software – and its application.

Throughout the course pupils will:

- Develop basic skills in the use of music technology hardware and software to capture and manipulate audio
- Use music technology in sound production
- Develop a basic understanding of significant 20th and 21st century musical styles and genres
- Reflect on your own work and that of others

This is a practical course delivered through the use of Ipads, Macs and PCs. Pupils will have the opportunity to develop their skills through Garageband and Mixcraft 6/7 software. The course also includes elements of listening and research based activities designed to develop understanding of 20th and 21st century musical styles and genres. Practical work will be carried out within a range of technological contexts including sound design for video games/film foley, live recording and multitrack recording.



Physical Education

In S3 pupils will follow a course in a variety of activities which will form the foundation for National 4 and National 5 courses in Physical Education in S4. You will learn:

- * how to improve your performance in a variety of activities including swimming. Swimming is an integral part of the course and pupils **should not pick this option** if they are not prepared to participate in this activity
- * the factors which could have an effect on your performance such as physical, social, emotional and mental
- * how to reflect on your performance and how to use this to improve your skill level.

Although this course is mainly practical there will be a written element. Therefore, pupils must come prepared with the correct kit for activities.



Dance with Aesthetics

The S3 course is a practical based course, which allows pupils to experience dance, gymnastics and trampolining. This will help form a foundation for national 4 and national 5 Physical Education through Aesthetics in S4.

The dance aspect of the course provides an opportunity for pupils to achieve a national progression Award (NPA) at level 4. Pupils will experience a variety of different styles including modern/street, contemporary and Scottish. Pupils will develop their skills by learning new dance techniques and routines, as well as choreographing their own. In the choreography element, pupils will work co-operatively in small groups to produce dances using different choreographic devices and structures.

The gymnastic and trampolining aspect of the course will enable pupils to develop key skills to help create a short routine in each activity. Pupils will develop their performance skills and confidence by regularly performing with and in front of their peers in all activities. They will also get the opportunity to analyse and develop their individual and group performances using video feedback.



Personal Development Programme

This course offers learners opportunities to develop a range of skills for learning, life and work. The programme includes the promotion of health and well-being, self-esteem and working with others and enables learners to work towards achieving a range of accreditation. Learners undertaking this programme could progress to relevant employability award programmes in S4.

Living for Sport

Pupils will participate in various sporting activities and work on developing leadership and team building skills. An opportunity to also work with the feeder primary schools and use skills learned in a practical setting. Pupils will also work towards various sport coaching qualifications and possible progression into the senior Grove Coaching Academy.

Prince's Trust Award in Personal Development and Employability Skills

Princes Trust Achieve Programme SCQF Level 3

Our Achieve Programme provides an opportunity for young people to try new activities, boost their confidence and gain a national recognised Prince's Trust qualification at level 3 or 4.

The curriculum requires students to develop and use a range of personal and employability skills in order to gain qualifications. Experiential learning is at the heart of the course as is direct engagement with the local and wider community.

The course will engage students in:

Personal Social Development- developing personal, communication and social skills

Life Skills – Giving young people the tools to handle a range of relevant life situations

Active Citizenship – Helps young people engage with and influence community issues

Enterprise Projects – Young people develop practical, commercial and creative skills

Preparation for Work – Identify strengths and interests and develop core employability skills

Pupils are required to complete Tracking Sheets for each unit and complete a portfolio of evidence. This is externally assessed.

A Saltire Award is available for any volunteering completed.

Entry Requirements

All applicants will be interviewed prior to acceptance on the course to ensure suitability and commitment.

PHYSICS

There are three units in the course which will be completed on rotation.

- **Unit 1 – Sound, waves and space.**

In this unit you will learn about sound waves, ultrasound, sound levels and basic sound engineering, radio waves, microwaves, infrared, ultraviolet, X-rays and gamma radiation, telescopes, line spectra, exploration of the solar system and technologies arising from space exploration.

- **Unit 2 – Electricity and electronics.**

In this unit you will learn about circuit symbols, current and voltages in series and parallel circuits, resistance, input devices, output devices, logic gates, magnets, electromagnets and their practical applications and supermagnets.

- **Unit 3 – Force and motion.**

In this unit you will learn about average speed, instantaneous speed, acceleration, speed-time graphs, forces, Newton's Laws, mass, weight, potential energy, kinetic energy, work and power.

For each unit pupils will complete a Practical Investigation and an assessment.

RMPE

The purpose of the course is to gain knowledge and understanding of religious, moral and philosophical issues that affect the world today, especially in Scotland, and to develop critical thinking skills through investigating questions raised and responses offered. Learners will have opportunities to reflect on issues and viewpoints and will develop skills to help them explain their own values in a respectful and creative manner.

The course aims:

- to investigate and explain key religious sources and beliefs evident in Scotland
- to reflect upon and explain religious responses to moral issues and how they challenge society
- to investigate and reflect on religious traditions, practices and customs within Scotland's diverse religious and cultural make up
- to understand values and their moral application
- to respect the beliefs and values of others

The course means to do this through the teaching of the following units:

- **Belief Unit** Through this unit learners will develop an understanding of fundamental beliefs held by a range of beliefs, such as Christian denominations, other world religions and those who hold views independent of religious belief.
- **Values Unit** This unit is designed so that learners can use the information they have gathered from the beliefs unit and can apply their learning of religion to learn from religion. They will consider various moral questions and they will evaluate different responses from a variety of opinions. Learners will use a range of sources and employ their critical thinking skills to evaluate and reflect so as to develop their respect for others and to consider their own viewpoints.
- **Scottish Unit** This unit aims to offer learners an opportunity to see the impact of religion in the historical and contemporary lives of the people living in Scotland. Drawing on the learning from the Belief and Values units, learners will search for and evaluate the meaning, value and the purpose in these responses for society and themselves.