



S3 OPTIONS 2019-20

MACKIE ACADEMY

Commitment | Integrity | Teamwork | Excellence

Pathway One: Modern Foreign Languages	
<p>French</p>	<p>In S3 we build on the language skills started in Primary School and extended and consolidated in S1 and S2. Pupils will read about, talk about, listen to and write about many topics relevant to young people such as health and well-being, sport and leisure, relationships and lifestyles, education and work.</p> <p>Learning other languages enables young people to make connections with people all over the world and play a fuller part in our world as global citizens. As well as learning to use the French language, they will develop a growing awareness of life in other French speaking countries and of the issues they face, enabling them to become responsible citizens as well as speakers of French.</p> <p>The skills of reading, writing, listening and talking are taught in many different ways: whole class teaching, pair work, group work, ICT, DVDs in French and introduction to native speakers of French if possible.</p>
<p>Spanish</p>	<p>In S3 we build on the language skills started previously and extended and consolidated in S2. Learning other languages enables young people to make connections with people all over the world and play a fuller part in our world as global citizens. As well as learning to use the Spanish language, they will develop a growing awareness of life in other Spanish speaking countries and of the issues they face, enabling them to become responsible citizens as well as speakers of Spanish.</p> <p>Pupils will read about, talk about, listen to and write about many topics relevant to young people such as health and well-being, sport and leisure, relationships and lifestyles, education and work.</p> <p>The skills of reading, writing, listening and talking are taught in many different ways: whole class teaching, pair work, group work, ICT, DVDs in Spanish and introduction to native speakers of Spanish if possible.</p>
<p>Languages for Life and Work</p>	<p>This award will provide pupils with the opportunity to gain a recognised SQA award in S3, either at SCQF level 3 or at SCQF level 4.</p> <p>It will provide learners with the opportunity to develop language skills in combination with employability skills while also being able to follow their own interests in a cultural context.</p> <p>The main purpose of this award is to study one language or two languages in practical and relevant contexts for life and work, and identify, develop and demonstrate employability skills.</p> <p>In particular, this award aims to enable learners, with support, to:</p> <ul style="list-style-type: none"> ◆ develop listening and talking skills in one or two modern languages in the contexts of life and work ◆ develop basic knowledge of one or two modern languages in the contexts of life and work ◆ develop employability skills such as interview skills, CV writing and searching for jobs. <p>For this award, assessment is a naturally occurring element of learning and teaching and pupils will be assessed during day-to-day learning and</p>

	<p>teaching. All pupils who pass this award will receive their SQA certificate in S3 and could also use it as a stepping stone to undertake further study of a modern language in S4.</p>
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The award will provide the opportunity to study one or two of the following languages:

- ◆ French
- ◆ German
- ◆ Italian
- ◆ Mandarin
- ◆ Spanish

If you want to find out any more information about the Modern Languages pathways speak to Mrs Smith, Mr Murray or Mrs Stevenson.

Pathway Two: Science	
Biology	<p>Biology enables learners to understand and investigate the living world in an engaging and enjoyable way. Biology, the study of living organisms, plays a crucial role in our everyday existence, and is an increasingly important subject in the modern world. In S3, learners will study Biology over three units of work.</p> <ul style="list-style-type: none"> ● Unit 1: Cell Biology – Investigate what cells are, their structure and how they work. ● Unit 2: Multicellular Organisms – Understand the survival of organisms by looking at their internal workings within the human body and within plants. It also looks at the behaviour of organisms. ● Unit 3: Life on Earth - Study the environment and the living things found within different habitats. It also looks at man's effect on the environment.
Chemistry	<p>Chemistry enables learners to understand and investigate chemicals and materials in an engaging and enjoyable way. Chemistry, the study of chemicals, their properties, and why they combine or separate to form other substances, plays a crucial role in our everyday existence, and is an increasingly important subject in the modern world. In S3, learners will study Chemistry over three units of work.</p> <ul style="list-style-type: none"> ● Unit 1: Chemical Changes and Structures – Make connections between the properties of chemicals with their possible chemical structures. ● Unit 2: Atoms and the Periodic Table – Study what chemicals are made of. ● Unit 3: Bonding and Properties of Substances – Investigate how are different materials formed.
Physics	<p>Physics enables learners to understand how the movement and behaviour of things surrounding us changes through space and time in an engaging and enjoyable way. Physics, the study of matter, energy, and the interaction between them, plays a crucial role in our everyday existence, and is an increasingly important subject in the modern world. In S3, learners will study Physics over three units of work.</p> <ul style="list-style-type: none"> ● Unit 1: Kinematics – Understand the theories behind how and why objects move. ● Unit 2: Waves – Explore the electromagnetic spectrum to discover how we see and hear, and use waves in technologies. ● Unit 3: Radiation – Discover how we can harness and use the energy stored within atoms.

If you want to find out any more about the Science options please speak to your Science teacher(s) or see Ms McKenna, Faculty Head of Science.

Pathway Three: Humanities and Social Subjects	
Business	<p>The S3 Business course examines a number of Level 4 Social and Technological outcomes and experiences. Pupils explore issues relating to two broad areas of study: Business in Action and Business Influences.</p> <p>This introduces pupils to a wide range of business theory including: the basic economic problem faced by all societies; types of companies, organisational structures and decision making; impact of companies on society's attitudes and culture; stakeholder groups and external business challenges; Business Ethics, technology and the environment.</p> <p>The knowledge, understanding and skills developed here are designed to prepare pupils for both the world of work and future examinations. The course is structured and assessed in three units: Unit 1 involves start-ups, business types and challenges. Unit 2 covers finance, structures and decision making and Unit 3 looks at economics and business failure, managing people, flexible working and the impact of entrepreneurs and technology.</p> <p>If you want to know anything more about the course please see Mrs Maclean.</p>
Geography	<p>Geography in S3 involves studying:</p> <p>Geographical Issues Environmental Hazards, namely Volcanoes, Earthquakes and Tropical Storms. Through case studies pupils will learn where, why and how they occur, the impact they have on people and the landscape as well as how we plan for and manage these hazards.</p> <p>Trade and Globalisation through investigating the role of Transnational Companies such as Coca Cola and their impact on producers, consumers and the environment.</p> <p>Physical Environments investigates the natural world and the forces which shape it. Pupils will learn about the role of the atmosphere in creating our weather as well as the role of glaciers and ice sheets during the Ice Age in creating the landscapes of Scotland and elsewhere.</p> <p>Human Environments looks at urban landscapes, towns and cities in the Developed World and part of this will involve fieldwork in the local area and thereafter processing and presenting the data gathered.</p> <p>If you want to know anything more about the course please see Mrs Coleman or Mrs Stevenson.</p>
History	<p>The S3 History course is divided into three topics. Firstly Britain's involvement in the slave trade will focus on the journey of a slave to the Americas and the conditions on board a slave ship, daily life and punishments for slaves on a plantation and finishes with the successful campaign to abolish slavery.</p> <p>This leads onto the next section, the Civil Rights Movement in America, with sections on the life of a Black American in the segregated South including the KKK and the Jim Crow laws, Martin Luther King and his</p>

	<p>non violent campaigns to win equality and then the move to violent campaigns with Malcolm X and the Black Panthers.</p> <p>Finally the Vietnam War will be studied with attention being paid to the causes of the war and reasons for US involvement, battle tactics and the failure to beat the Vietcong as well as the impact on international relations.</p> <p>If you want to know anything more about the course please see Mrs McClymont, Mrs Cowie or Ms Trimble.</p>
<p>Modern Studies</p>	<p>Modern Studies in S3 involves studying:</p> <p>World Issues: conflict resolution, involves finding out about conflicts in the world and how they start and peace is found. Recent conflicts the UK has fought in, like Afghanistan will be studied. There will be particular focus on the war in Syria, its causes and impact on the people of Syria and the wider world.</p> <p>Social Issues: the elderly, takes the older members of our community as a focus. Scotland has a growing elderly population and how their needs are met now and in the future is important.</p> <p>International Issues: Poverty and Aid; learn about the causes of lack of development in African countries and how those countries needs are met through aid.</p> <p>Political Issues: learners will take part in a pressure group activity, designing a campaign to highlight an issue or problem in either the local area, nationally or internationally.</p> <p>If you want to know anything more about the course please see Ms Swanson, Mr Lock or Ms Stuart.</p>
<p>Religious, Moral and Philosophical Studies (RMPS)</p>	<p>RMPS in S3 involves studying:</p> <p>Morality and relationships looking at gender roles in families, employment and religion. In addition studying relationships and marriage, civil partnerships and religious and non-religious responses to marriage and divorce.</p> <p>Values in Action Learners will investigate religious responses to social inequalities and how religious and non-religious groups respond eg by looking at the work of charities or faith groups. This helps learners to deepen their knowledge and understanding of how religion and values can shape and contribute to the lives of individuals and communities</p> <p>Completion of this work leads to an SQA Award in 'Religion, Belief and Values' Award. The Award encourages learners to explore and reflect on their personal faith or values, and to deepen their understanding of this through practical engagement in local, national or global communities.</p> <p>If you want to know anything more about the course please see Mr Hewitt or Mrs Duncan.</p>

Pathway Four: Technologies	
Design	In the S3 Design course pupils will learn about the design process and how products are manufactured. They will critically analyse products through studying the materials wood, metal and plastic. The pupils will learn creative thinking skills and use idea generation techniques to design their own products in response to a brief, which they will then make in a workshop through manufacturing models and prototypes. They will gain an understanding of the design/make/test process and the importance of evaluating and resolving design ideas on a continual basis. Pupils will learn about commercial manufacture techniques used in industry and the impact of design and manufacturing technologies on our environment and society. The course is best suited to prepare pupils for the National Design and Manufacture course.
Engineering and Graphics	In the S3 Engineering and Graphics course pupils will follow two main strands to help prepare them for the National courses of Engineering Science and Graphic Communication. Pupils will learn technical drawing skills and produce manual drawings through the use of technical drawing equipment to BSI (British Standards Institution) standards. They will learn CAD (Computer Aided Design) skills by producing 3D models on Autodesk software. Pupils will design page layouts learning about design elements involved in Graphic Design. Pupils will learn about engineering in a Scottish context. They will gain skills in building electronic circuits and understand how electronic control systems work. The course will teach the inner workings of mechanical systems and structural items and the mathematical calculations required to create them. Pupils will also gain an awareness of how systems consume energy and energy transfer.
Practical Wood and Metal work	The practical wood and metal course is a practical experience where pupils will learn about the materials wood and metal in a workshop setting. The course will mainly be taught in the workshop enhancing pupils fine motor skills through the use of workshop tools. This will be covered by teaching joining methods of metals and creating woodworking joints. The course will also cover the use of workshop machinery used to create wooden or metal objects. The course will teach how to read and understand cutting lists and working drawings to allow them to create a practical artifact. The course will require pupils to have a good degree of accuracy when using workshop equipment. Pupils will make models out of wood and metal to showcase their learned skills. Pupils will be assessed on their knowledge of the materials and the accuracy of their work to prepare them for the National course.

If you want to know anything more about the course please see your DT teacher or Mr Burns, Faculty Head of Art, Design and Technologies.

<p>Home Economics</p>	<p>S3 Home Economics is a great opportunity to broaden pupils knowledge of practical skills and nutritional information. Students with a particular interest in a career in Food and Health, Hospitality, Sports or those that would like to develop their essential life skills, would greatly benefit from this course. Throughout the year pupils will be taught a variety of practical skills that relate to food preparation as well as being asked to complete supportive theoretical work. This will be split into six units, covering topics such as: Food Safety, Nutrition in the Community, Food Law, Advertising and Food Technology. Each unit will include both a practical and theory based assessment. There is an expectation that pupils come to class prepared with a suitable box and apron in order to participate in each lesson. S3 Home Economics supports the progression into senior phase National 4/5 Hospitality: Practical Cookery.</p> <p>If you want to know anything more about the course please see your HE teacher.</p>
<p>Computing Science</p>	<p>Computer Science is an essential skill to workforce and economic development because there is rarely a job today that doesn't involve computers at some point in the process.</p> <p>The course is designed to give students wide experience of Computer Science concepts and skills. It is a great introduction to National 5 Computing Science but also for those who wish to focus on NPA Cyber Security or NPA Web Design and Development courses in the future.</p> <p>The majority of lessons are practical and will develop your creativity and confidence in using a variety of computer systems and applications. There will also be regular written classwork, homework and assessments to give you feedback on your progress in each of the topics.</p> <p>The topics include web design (HTML, CSS and Javascript), multimedia, computer programming (Python 3), physical computing (electronics, robotics), databases (MS Access), computer systems and cyber security.</p> <p>If you want to know anything more about the course please see Mr Simpson in B3.</p>

Pathway Five: Arts	
Art and Design	<p>Art and Design at Mackie Academy provides opportunities to develop aesthetic understanding, creativity and visual awareness, knowledge and appreciation. It encourages candidates to use a range of media and technology to understand, appreciate and respond to their world. The core outcomes the students will be completing on this course will focus on portraiture, 3D design and media handling.</p> <p>The S3 Curriculum for Excellence course promotes creative thinking, encourages independent thought, innovation, problem solving and the development of personal opinions. During the course students will research and analyse works by different artists and designers, developing their ability to articulate their own opinions on this work. The course allows pupils to progress from their prior learning and develop a varied skill set, in preparation for further study at National 4 or 5 levels. If you want to know anything more about the course please see Mrs Grey, Ms Davidson-Clark or Ms Beattie.</p>
Music	<p>In S3 Music, pupils continue to develop their Performing, Understanding and Composing skills. Pupils receive one double period of music a week. One lesson is dedicated to performance practise allowing for consistent progress throughout the year. Pupils continue to study two chosen instruments in class and are encouraged to join extra-curricular musical ensembles. The other lesson is focused towards the Understanding/Composition aspects of the course. Pupils will start to develop their Understanding skills through listening activities aimed to broaden their knowledge of musical styles/instruments and literacy. They will use these skills to produce original pieces of composition in class. Pupils are assessed continually throughout the year through formative assessments such as short performances or against task criteria. Instrumental/vocal practise is a key element of the course and pupils are expected to be practicing their instruments regularly at home and outside of class time where possible.</p> <p>If you want to know anything more about the course please see Mr Moffat or Ms McNeill.</p>
Drama	<p>S3 continues to build on the foundations of S2 Drama. Candidates develop complex performance and design skills as well as the ability to express themselves critically in written form.</p> <p>The course is comprised of units looking at different styles of theatre, such as Theatre in Education/Forum Theatre and Epic Theatre, as well as prepared interpretations of both classical and contemporary published plays.</p> <p>There is continual formative assessment throughout the year through written evidence, oral discussions and practical performance. Performance is a requirement of the course and whilst there are opportunities for pupils to explore design aspects, acting in front of peers is mandatory.</p>

	<p>Homework takes the form of preparation for performance, including independent research, learning of lines and written evaluations. This written component compliments practical skills to adequately prepare pupils entry to the National 4/5 course. If you want to know anything more about the course please see Mr Allen or Mr Angus.</p>
Physical Education (PE)	<p>Physical Education plays an important role in developing the physical, mental, emotional and social well-being of pupils. At Mackie Academy, our students will develop their understanding and performance in a variety of activities that require the ability to problem solve, work as part of a team, demonstrate good creativity and show leadership qualities. Pupils will be encouraged to transfer their previous knowledge from activities they are familiar with to those that are less familiar. These activities include: Fitness, Basketball, Handball, Swimming, Water Polo, Athletics, Gymnastics and Table Tennis. Physical Education offers a range of career paths within sport and provides the opportunity to learn how to lead a healthy and active lifestyle. Such career paths include: Physiotherapy, Sports Coaching, Sport Science, Personal Trainer, Nutritionist and many more. If you want to know anything more about the course please see your PE teacher.</p>

Additional Pathways: any of these can be taken as a “free choice”	
Applied Anatomy and Physiology	<p>This course covers human anatomy, physiology and applies pupils' theoretical knowledge to practical performance. Throughout the year we will look specifically at; bone structure and function, different types of muscles and how they develop, different types of joints, role of ligaments and tendons, role of the cardiovascular system, function of the respiratory system and the short and long term effects of exercise. In addition to this, we will be looking at possible career pathways for pupils interested in; Physiotherapy, Occupational Therapy, Sport Science and Sport Psychology. The course will be over two periods, one will be used as a theory lesson and the second will be a practical lesson. Prior knowledge from the S2 Anatomy and Physiology will be useful, however the course will be open to all S3 pupils.</p> <p>If you want to know anything more about the course please see Mr Smith in PE or Mr Axten, Faculty Head of Health.</p>
Duke of Edinburgh Bronze Award	<p>The key elements of the course are:</p> <ul style="list-style-type: none"> ● Volunteering section: three months ● Physical section: three months ● Skills section: three months ● Expedition section: two days / one night <p>You also have to do three more months in one of the sections above to complete your award.</p> <p>The weekly lesson will cover key elements of the course but what it cannot do is account for are the hours that must be completed for the skill, volunteering and physical activity elements of the programme. These must be completed outside of curriculum time. In addition to this, there will be a commitment to regular engagement, most probably of an evening, to meet with the leaders and volunteers who will be helping them successfully complete the expedition element of the qualification. The DofE Bronze Award is a fantastic opportunity to take ownership of your learning.</p> <p>If you want to know anything more about the course please see Mr Axten, Faculty Head of Health.</p>
Dance	<p>Choice dance is a new class open to anyone with an interest in any style of dance. During the year the students will look at the two elements of performance and choreography. The performance element will include technique and solo/group performances in jazz, contemporary and hip-hop. Students will learn about the various dance actions and look further into the background of each style. Throughout the choreography element pupils will have the chance to create their own dance for a small group. They will be able to choose their own theme, style of dance, lighting, costume and makeup. At the end of the year students will be invited to perform all their work in a special dance showcase.</p> <p>If you want to know anything more about the course please see Ms Deaney or Mrs Sutherland in PE.</p>

<p>Employability</p>	<p>The Employability Award is flexible and can be adapted easily to changing world of work. The key aim of the course is to improve a pupil's employability skills so that when the time is right they can gain and sustain employment.</p> <p>Units of study will include Preparing for Employment: First steps, Building your employability skills alongside optional units in the responsibilities of employment and dealing with work situations. In addition to this the school will use its extensive links with partners to give pupils access to experiences so that pupils get a "real" understanding of the workplace.</p> <p>Regardless of what you want to go on to do in the future this is a course that will give you a real insight into what the world of work really will expect of you.</p> <p>If you want to know anything more about the course please see Mrs Angel, Principal Teacher of Developing the Young Workforce who can be found in the Pupil Support and Attainment Base.</p>
<p>Literacy Plus</p>	<p>The Literacy course gives pupils the opportunity to build confidence in key areas of literacy - reading, writing, talking and listening. It is a continuation of the skills that have been developed through S1 and S2 with the aim of preparing learners for the demands of the Senior Phase courses they will choose. Having the appropriate literacy skills to access the curriculum is critical for a pupil's success regardless of what pathways are taken going forwards.</p> <p>Please note that if the school thinks a pupil would benefit from this option we will make you aware. If you want to know anything more about the course please see Mrs Hamilton, Faculty Head of English.</p>
<p>Mathematics Plus</p>	<p>Mathematics Plus gives pupils the opportunity to build confidence in key areas of Mathematics and Numeracy. The course provides consolidation in Algebra, Geometry, Statistics and Non-Calculator skills all at fourth level and beyond so that learners have the best chance of achievement of the National 5 qualification during their time at Mackie Academy.</p> <p>Please note that if the school thinks a pupil would benefit from this option we will make you aware. If you want to know anything more about the course please see Mr Macdonald, Faculty Head of Mathematics and Computing.</p>
<p>Personal Development Award (PDA)</p>	<p>Our Personal Development Award aim to help learners become more independent and to develop their potential as contributing members of their societies. Learners will develop self-reliance, self-esteem and confidence through supported and independent learning.</p> <p>Pupil take part in a project based curriculum to develop skills for work and life. In previous years, students have run a variety of enterprise projects to raise money and develop skills. Pupils have run cafés, sold crafts, and sold doggy gift bags.</p> <p>The PDA is a Level 3 award and it will be accredited by the SQA.</p> <p>If you want to know anything more about the course please see Ms Perk, Principal Teacher of Additional Support for Learning.</p>

Princes Trust: Moving Forwards	<p>Moving Forward is a collaboration between Mackie Academy, Portlethen Academy, and Mearns Academy and the Prince's Trust. Pupils' learning is accredited through The Prince's Trust Achieve programme. It a personal development course providing a unique offering for 11 to 19-year-olds; a practical approach to learning which supports young people to fulfil their potential.</p> <p>The Achieve programme provides an opportunity for you to try out new activities, boost your confidence and gain a recognised Prince's Trust qualification.</p> <p>This year, at Mearns Academy pupils took part in land-based activities and a community project and Portlethen Academy delivered a programme around personal development and physical exercise.</p> <p>Mackie Academy is delivering a Home Economics program around product development and career planning.</p> <p>If you want to know anything more about the course please see Ms Perk, Principal Teacher of Additional Support for Learning.</p>
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Mackie Academy

‘Personalising My Pathways’

S3 Option Form 2019-20



Students going into S3 will follow English and Maths, as well as core subjects of PE, PSE & RMPS. An additional **NINE** subjects should be selected as outlined below.

- Pupils must first select **ONE** subject from each of pathways 1 to 5.
- Pupils should then select an additional **FOUR** subjects, chosen from any of the pathways, *in order of preference*.

It may be the case that not all subject combinations become possible due to uptake and availability of staffing. Pupils must therefore also make one 'reserve choice'.

Pathway 1	Pathway 2	Pathway 3	Pathway 4	Pathway 5
French	Biology	Business	Design	Art & Design
Spanish	Chemistry	Geography	Engineering and Graphics	Drama
Languages for Life and Work	Physics	History	Practical Wood and Metalwork	Music
		Modern Studies	Home Economics	Physical Education
		RMPS	Computing Science	

Additional Pathways		
Applied Anatomy and Physiology	Dance	Literacy Plus
Duke of Edinburgh (Bronze Award)	Employability	Mathematics Plus
Personal Development Award	Prince's Trust - Moving Forward	

Use this section to show your one choice from pathways 1-5	
Pathway Choices	Subject
Pathway 1	
Pathway 2	
Pathway 3	
Pathway 4	
Pathway 5	

Use this section for your free choices from any pathway in order of preference	
Free Choices	Subject
1 st free choice	
2 nd free choice	
3 rd free choice	
4 th free choice	
Reserve choice	

Pupil Name:		Tutor Group:	
Parent Name:		Parent Signature:	
PT PSAT:		Date returned:	

This form must be completed and returned to the pupil's Principal Teacher Pupil Support and Attainment no later than 3.15pm on Monday 4th February 2019. The late return of a form may impact on the ability of the school to give the preferred options requested.

Notes and questions I want to ask my teachers:

