Faculty of Mathematics

COURSE TITLE	Mathematics
LEVEL	National 4
ENTRY REQUIREMENTS	Pass at National 3 Life skills
COURSE DESCRIPTION	 The National 4 course follows the criteria set down by the SQA. National 4 courses are available to S4, S5 and S6 pupils to provide lateral and vertical progression. The National 4 course aims to motivate and challenge learners by enabling them to select and apply straightforward mathematical skills in a variety of mathematical and real-life situations. develop confidence in the subject and a positive attitude towards further study in mathematics. enable the use of numerical data and abstract terms and develop the idea of generalisation. allow learners to interpret, communicate and manage information in mathematical form; skills which are vital to scientific and technological research and development. develop the learner's skills in using mathematical language and explore straightforward mathematical ideas.
COURSE ASSESSMENT	During the New Qualification course in Mathematics, pupils will be sitting four key assessments during this year of the course. They will be assessed on the following units: Expressions and Formulae, Relationships and Numeracy. At the end of the course pupils will have to pass an internal SQA test as well as the internal Units to receive a course award. For the internal SQA test, the learner will draw on and apply the skills they have learned across the other three Units. This will offer opportunities to demonstrate the breadth of knowledge and skills acquired from across the Units of the Course, sometimes in integrated ways. As an aid to meeting these aims, skills in using a calculator will be developed and a calculator will be permitted in part of the test.
SKILLS FOR LEARNING, SKILLS FOR LIFE and SKILLS FOR WORK INCLUDED	Numeracy Number Processes Money, time and measurement Information handling Thinking Skills Applying Analysis and evaluating

COURSE TITLE	Mathematics
LEVEL	Higher
LEVEL	National 5
ENTRY REQUIREMENTS	National 5 Pass (Grade A to C)
ENTRISE EQUICREPATEONIS	ቅ μቲል፤s edultational ed is an emphasis on skills development and the application of those skills
COURSE DESCRIPTION	 The National Stody'se follows the criteria set down by the SQA. National Stody'se follows the criteria set down by the SQA. National Stody'se and shallable to support of mathematical and vertical by orgation in a variety of mathematical. The National Stody'se and the set of the support of the set of the second vertical by orgation in a variety of mathematical. The National Stody'se and the set of the support of the second vertical by orgation in a variety of mathematical. The National Stody's a set of the support of the set of the second vertical by orgation in a variety of mathematical. Afford are set of the se
COURSE ASSESSMENT	ទីស្តីកើតម្លាំស្តែ New Qualification course in Mathematics, pupils will explore
COURSE ASSESSMENT	the following units: Expressions and Formulae, Relationships and Ruping the Ligher course in Mathematics, pupils will explore the following difficiency of the course in Mathematics of the second
	In the National Static puper and the static course, added value will focus on:
	 breadth In the Higher Mathematics Course, added value will focus on: Challenge breadth application challenge
	This will be assessed within a question paper, requiring demonstration of the breadth of knowledge and skills acquired from across the Units of the courser, swill drives on integrated ways. VAs an all to meeting these aims, skills in the course of the developed and a calculator will be This will be assessed within a question proper, requiring demonstration of
SKILLS FOR LEARNING,	the breadth of knowledge and skills acquired from across the Units of the
SKILLS FOR LIFE and	Course, sometimes in integrated ways. As an aid to meeting these aims,
SKILLS FOR WORK	skills in using a calculator will be developed and a calculator will be Money, time and measurement
	permitted in part of the question paper.
	Thinking Skills Applying Analysis and evaluating

	Numeracy Mathematics
SKILLS FOR LEARNING,	Number Processes Monoy, time and monoyurement
SKILLS FOR LIFE and	Money, time and measurement
	Advanced Higheriation nanding
ENTRY REQUIREMENTS	HighienkRagsk@lsade A to C)
	Applying
COURSE DESCRIPTION	The Advanced High and Mathematiles course is designed to articulate with
	 and provide a progression from the Higher Mathematics course. The Course will also provide those who wish to proceed beyond Advanced Higher with a suitable base for further study. The Course is designed to enthuse, motivate and challenge learners by enabling them to: select and apply complex mathematical techniques in a variety of mathematical situations, both practical and abstract. extend and apply skills in problem solving and logical thinking. extending skills in interpreting, analysing, communicating and managing information in mathematical form, while exploring more advanced techniques. clarify their thinking through the process of rigorous proof. The Course develops and expands a range of mathematical skills. It allows the learner to develop further skills in calculus and algebra. Areas such as number theory (which helps keep the internet secure), complex numbers (the uses which are ubiquitous, ranging from the solution of equations to the description of electronic circuits) and matrices (used in game theory and economics) are introduced. The learner's mathematical thinking will also benefit from examples of rigorous proof.
COURSE ASSESSMENT	During the Advanced Higher course in Mathematics, pupils will explore the following units: Methods in Algebra and Calculus, Applications of Algebra and Calculus and Geometry, Proof and Systems of Equations. At the end of the course pupils will have to pass an Added Value external SQA exam to receive a course award. In Advanced Higher Mathematics Course, added value will focus on: • breadth • challenge • application. Learners will draw on, extend and apply the skills they have learned during the Course. This will be assessed within two question papers, requiring demonstration of the knowledge, skills and understanding acquired from across the Units and how they can be applied in unfamiliar contexts and/or integrated ways.
SKILLS FOR LEARNING,	Numeracy
SKILLS FOR LIFE and	INUMBER Processes Money, time and measurement
	 Information handling
INCLUDED	
	Thinking Skills
	Applying
	Analysis and evaluating