## **Mathematics**

Mathematics is important in our everyday life, allowing us to make sense of the world around us and to manage our lives. It equips us with the skills we need to interpret and analyse information, simplify and solve problems, assess risk and make informed decisions. Mathematics plays an important role in areas such as science or technologies and is vital to research and development in fields such as engineering, computing science, medicine and finance. Mathematics equips us with many of the skills required for life, learning, and work. Within the mathematics framework, some statements of experiences and outcomes are also identified as statements of experiences and outcomes in numeracy. These form an important part of the mathematics education of all children and young people as they include many of the numerical and analytical skills required by each of us to function effectively and successfully in everyday life.

The mathematics experiences and outcomes are structured within three main organisers, each of which contains a number of subdivisions:

### Number, money and measure

- · Estimation and rounding
- · Number and number processes
- Multiples, factors, and primes
- Powers and roots
- Fractions, decimal fractions, and percentages
- Money
- Time
- Measurement
- Mathematics its impact on the world, past, present and future
- Patterns and relationships
- Expressions and equations



## **Shape, position and movement**

- Properties of 2D shapes and 3D objects
- Angle, symmetry, and transformation

## Information handling

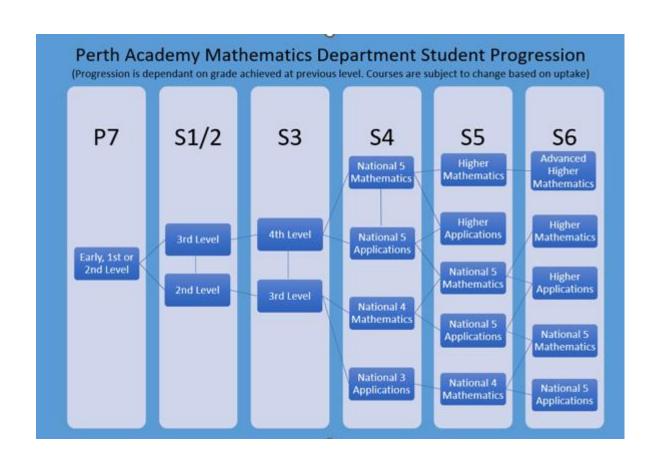
- Data and analysis
- Ideas of chance and uncertainty.

## **Course Assessment**

Assessment information is gathered in S1 and used to determine whether pupils work at Level 2 or 3. Mid-way through S2, pupils will begin working on the next level.

Skills for Learning, Life and Work

Communication	Employability	Leadership	Learning	Self- Management
Active Listening Giving & Receiving Feedback Presenting	Managing Resources and Time Teamwork	Extending the thinking of others Offering Encouragement	Remembering Understanding Applying Analysing Evaluating Information Handling Investigating or Problem Solving	Perseverance Positive Thinking



# Higher Applications of Mathematics A Nutshell Guide for Parents

What is the new Higher Applications of Mathematics course and who is it for?

This course will equip learners with sought after mathematical, statistical and financial skills. It is suitable for a wide range of learners, including those who wish to progress to further learning and employment in non-STEM areas.

I am enjoying the way of learning through e-Sgoil and I was surprised at how well it worked even from the first lesson.

#### What will your child gain from this course?

- •Knowledge & skills in statistics, mathematical modelling, finance and project planning which are relevant to a wide range of careers and courses
- •Skills in using technology to manipulate and model mathematical, statistical, and financial information
- •Skills in analysing, interpreting and presenting data and numerical information
- ·Skills in evaluating numerical information critically

#### How will your child learn?

- •Through live, online lessons with a specialist teacher
- Through independent study
- •Through practical tasks, many of which will involve the use of technology
- •From live inputs delivered by industry experts
- ·Alongside learners from a range of different schools
- ·By contributing to class discussion
- •By using appropriate digital tools
- ·By using the interactive course materials available on Scholar

#### What will be your role?

- •To continue to support your child with their learning
- •To encourage your child to engage with what will at first be a new and different learning experience
- •To encourage your child to communicate effectively with their teacher so they can provide the correct level of support
- •To share feedback on your own and your child's experience of e-Sgoil

#### How will the course be assessed?

The course will be assessed through a question paper (exam) and a project, which will be marked by SQA and graded A to D

# **National e-Learning Offer**









