

S1 Mathematics (A and B classes)

Unit 1: Time, rates and ratio.

time (12hr and 24hr times),
time intervals and timetables,
Speed, distance and time
calculations,
exchange rates,
ratio and proportional relationships.

Assessment: week of 14/09

Note: The A and B classes generally cover the same topics, with the A class often going into more depth and extending some of the skills being covered.

Unit 2: Understanding Number

factors, multiples and primes,
divisibility rules
powers and notation,
operations with integers,
order of operations

Mid-unit assessment

Final assessment in Term 2....TBD

S3 Mathematics

Unit 1: Algebraic reasoning, equations and formulae

This is a continuation from before the summer break.

factorisation - including variables as a common factor
representing inequalities,
solving and interpreting linear inequalities,
changing the subject of a formula (including squared terms and square roots)

Assessment - week of 07/09

Unit 2: Right-angled trigonometry

using the Pythagorean theorem to find any side in a right-angled triangle,
the distance formula in 2d,
right-angles trigonometry (SOH, CAH, TOA),
angles of elevation and depression, bearings and applications,

Assessment - week of 05/10

S4: National 5 Applications of Mathematics

Unit 1: Money, budgeting and finance

getting paid - rates of pay, overtime, commission,
deductions - calculating NI from a table, tax and pension
determining a best deal from three different options or
analyzing a table of information to decide on a cheapest option
budgeting - savings and payment plans,
currency conversions

Assessment - week of 07/09

Unit 2: Statistical skills and probability

averages and spread - mean, mode and median, range
inter-quartile range and standard deviation
statistical diagrams - pie charts, boxplots and scatter graphs (including line of best fit),
interpreting data in graphical form,

Mid-unit assessment (at the end of statistics topics in last week of term)

Unit assessment in Term 2

S2 Mathematics: (A and B classes)

Unit 1: Algebraic reasoning and manipulation.

This is a continuation from before the summer break.

factorisation - including variables as a common factor
representing inequalities on a number line,
solving linear inequalities,
word problems leading to linear equations or
linear inequalities

Assessment week of 07/09

Note: The A and B classes generally cover the same topics, with the A class often going into more depth and extending some of the skills being covered.

Unit 2: Proportional reasoning

review % (calculating %, one quantity as a percentage of another, FDP, etc)
percentage increase and decrease ratio (dividing in a given ratio, given a ratio find a missing value, etc)
Rates and SDT

Mid-unit assessment

Assessment in Term 2...TBD

Curriculum Information
Sandwick Junior High School

Term: 1

Teacher: Mr C Marshall



S4: National 5 Mathematics

Unit 1: Equations and relationships

review solving equations with integer coefficients,
solving linear inequalities,
solving simultaneous equations using elimination,
solving word problems using simultaneous equations,
solving equations with rational coefficients (multiplying by the LCM, etc),
changing the subject of an equation/formula (include the equation of a straight line)

Assessment in week of 14/09

Unit 2: Algebra and quadratic equations

expanding brackets (up to three linear factors),
factoring a quadratic expression,
completing the square,
solving a quadratic equation - by factorising and using the quadratic formula

This unit continues into Term 2.