

Middle Secondary – Lesson name changes Feb 2011

Lesson names

There have been some changes to lesson names. These changes are highlighted in **light orange**.

Lessons

No existing lessons have been removed and no new lessons have yet been added. Some lessons do contain new widgets or HOTSheets.

Topic order

The topic sequence shown below is from 2010. The 2011 sequence now shows the topics sorted into major strands: Number, Patterns and Algebra, Measurement, Geometry, Chance, Data.

Topic	Lesson name	New Name as of Feb 2011
Number notations	Significant figures & rounding	
	Scientific notation	
	Exploring recurring decimals	
	Converting rates	
Earning money	Wages & salaries	
	Extra earnings	
	Part-time work	
	Tax & other deductions	
	Budgeting	
Buying, borrowing, investing	Best buys, discounts, GST	Best buys, discounts, sales tax
	Buying on credit	
	Simple interest	
	Compound interest	
	Compound interest formula	
	Depreciation	
	Loans	
Probability	Relative frequency	
	Using relative frequency	
	Calculating probability	
Perimeter & area	Perimeters & arcs	
	Area of a kite & a rhombus	
	Area of a trapezium	
	Areas of parts of circles	
Data collection	Cumulative frequency	
	Cumulative frequency histograms	
	Grouping data	

Topic	Lesson name	New Name as of Feb 2011
Number plane: Calculations	Midpoint	
	Distance using graphs	
	Gradient using graphs	
	Distance formula	
	Gradient formula	
Number plane: Straight lines	Slopes & intercepts	
	Tables to graph lines	
	Reading the equation	
	Gradient-intercept graphs	
	Determining the equation	
Indices	Multiplying & dividing terms	Multiply & divide terms with powers
	Powers upon powers	
	Negative indices & reciprocals	
	Fractional indices & roots	
Trigonometry: Introduction	Naming the sides	
	The tangent ratio	
	Using the tangent ratio	
	The sine & cosine ratios	
	Side lengths using any ratio	
	Calculating angles	
Trigonometry: Minutes & bearings	Applying trigonometry	
	Splitting the degree	
	Sides & angles	
	What are bearings?	
Algebraic expressions	Using bearings	
	Adding & subtracting fractions	Add & subtract algebraic fractions
	Multiplying & dividing fractions	Multiply & divide algebraic fractions
	Expanding & simplifying	
	Factorising	
	Extending algebraic fractions	
	Using algebra	

Topic	Lesson name	New Name as of Feb 2011
Linear equations & inequalities	Solving linear equations	
	Equations with brackets	
	Equations with fractions	
	Problems & formulas	
	Inequalities	
	Extending inequalities	
Simultaneous equations	Graphs	Graphs, tables or guess & check
	Using the substitution method	
	Using the elimination method	
	Solving problems	Solving problems simultaneously
Data analysis	Mean, median, mode	Centres for grouped data
	Box-and-whisker plots	
	Standard deviation & distribution	
Volume	Volumes of prisms & cylinders	
	Volumes of right pyramids	Volumes of pyramids
	Volumes of right cones	Volumes of cones
	Volumes of spheres	
Surface area	Prisms	Surface areas of prisms
	Cylinders	Surface areas of cylinders
	Right pyramids	Surface areas of pyramids
	Cones & spheres	Surface areas of cones & spheres
Reasoning in geometry	Angles in polygons	
	Tests for congruent triangles	
	Writing reasons	
	Similar triangles	
Number plane: Curves	Plotting curves	
	Parabolas	
	Hyperbolas	
Graphs of physical phenomena Now: Bivariate data	Distance/time graphs	
	Other line graphs	
	Graphs with curves	

Topic	Lesson name	New Name as of Feb 2011
Quadratic expressions	Expanding binomial products	
	Factorising monic quadratics	
	Factorising non-monic quadratics	
	Special products & factors	
	Other factorisations	
	Simplifying using factors	
Surds	Introducing surds	Reals, rationals & surds
	Operations with surds	
	Rewriting surds	
	Binomial surds	
Quadratic equations	How many solutions?	
	Solving using factors	
	Completing the square	
	The quadratic formula	
	Simultaneous solutions	Simultaneous quadratics
Trig beyond right triangles	The unit circle	
	Related ratios	
	Trig relationships	
	Area using trig	
	Sine rule	
	Cosine rule	