

Year 7 Maths: Topic plan for 2016:

Year 7 2016: TOPIC PLAN

Semester One, Term One:

1. Representing & interpreting data 6 lessons
2. **Positive Integers\*\*** (15 minute sessions each day)
3. Indices and primes 6 Lesson

Semester One, Term Two

4. **Fractions (Real numbers)** (15 minute sessions each day)
5. Algebra 9 lessons
6. Measurement 12 lessons
7. Extra topic **Decimals** (15 minute sessions each day)

Semester Two, term three

8. Linear equations 9 lessons
9. **Order of operations** (15 minute sessions each day)
10. Coordinates & the Cartesian plane 8 lessons
11. Probability 9 lessons

Semester Two, term four

12. Geometry 9 lessons
14. **Percentages** (15 minute sessions each day)
15. **Money** (15 minute sessions each day)

Head start for year 8

- Positive & negative numbers 6 lessons
- 4 cube house project 3 lessons



YEAR 7 MATHEMATICS Positive integers

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Adding and Subtracting Positive Integers			
2	Multiplying and dividing positive integers			
3	Long division			
4	Order of operations			
5	Factors & multiples			
6	Lowest common multiple and highest common factor			
7	Estimation			
8	Chapter review			
9	Chapter review			
10	Assessment task			

Fractions

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Understanding Fractions			
2	Equivalent Fractions			
3	Adding & Subtracting Fractions			
4	Multiplying Fractions			
5	Dividing Fractions			
6	Powers & Square Roots of Fractions			
7	Understanding ratios			
8	Working with ratios			
9	Chapter Review			
10	Test			



YEAR 7 MATHEMATICS - Algebra

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Understanding rules			
2	Using Pronumerals			
3	Terms, expressions & equations			
4	Evaluating expressions			
5	Strategies for solving an equation			
6	Using flowcharts			
8	Building expressions using flowcharts			
9	Solving equations using backtracking			
10	Solving equations by balancing			
11	Chapter review			
12	Assessment Task			

YEAR 7 MATHEMATICS Length, Area and Volume

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Understanding length			
2	Perimeter			
3	Understanding Area			
4	Area of a rectangle			
5	Area of a Parallelogram			
6	Area of a Triangle			
7	Surface Area			
9	Volume & Capacity			
	Chapter review			
10	Assessment Task			

YEAR 7 MATHEMATICS Decimals & Percentages

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Understanding Decimals			
2	Ex 3B Adding & Subtracting Decimals			
3	Ex 3C Multiplying Decimals			
4	Ex 3D Dividing a decimal by a Whole number			
5	Ex 3E Dividing a Decimal by a Decimal			
6	Ex 3F Converting between fractions & Decimals			
7	Ex 3G Converting between Fractions, Decimals & Percentages			
8	Ex 3H Converting between Fractions, Decimals & Percentages			
9	Chapter review			
10	Test			



YEAR 7 MATHEMATICS Coordinates & the Cartesian plane (8 Lessons maximum)

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Alphanumeric grid ref. on a map			
2	The Cartesian plane			
3	Plotting simple linear relationships			
4	Plotting simple linear relationships			
5	Plotting simple linear relationships			
6	Interpreting graphs			
7	Year 7- Semester 2 – CAT 2			
8	Chapter review			
9	Assessment Task			

Probability (Time limit 8 lessons)

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	The language of chance			
2	The sample space			
3	Simple probability			
4	Using a table to show sample space			
5	Experimenting with chance			
6	Chapter review			
7	Assessment Task			

YEAR 7 MATHEMATICS Geometry

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Measuring angles			
2	Constructing angles with a protractor			
3	Types of angles and naming angles			
4	Triangles			
5	Quadrilaterals and their properties			
6	Parallel and perpendicular lines			
7	Chapter review			
8	Assessment task			

YEAR 7 MATHEMATICS Positive & negative numbers

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Integers on the number line			
2	Integers on the number plane			
3	Addition & subtraction of integers			
4	Multiplication and division of integers			
5	Combined operations			
6	Chapter review			
7	Assessment task			

YEAR 7 MATHEMATICS Transformations

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Translations			
2	Reflections			
3	Rotations & combined transformations			
4	Chapter review			
5	Assessment task			

YEAR 7 MATHEMATICS Views of 3- D shapes

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Plans & view			
2	Isometric drawing			
3	Chapter review			
4	Assessment Task			

## YEAR 7 MATHEMATICS Money (6 lessons)

	Learning intention	Progressing toward the Standard	Working at the Standard	Working above the Standard
1	Money & percentages			
2	Unitary method			
3	Chapter review			
4	Assessment Task			