Emerging Progress

Students should be able to demonstrate fluency in Mathematics and a developing ability to decision make and solve problems.

- Accurately recall number facts, terminology and definitions
- Use and interpret notation correctly
- Carry out routine procedures or set tasks requiring single step solutions
- Carry out routine tasks requiring single step solutions

- Recall basic number facts with increasing accuracy
- Use notation correctly
- Communicate basic information

In Year 9, the students Knowledge journey increases in Challenge further to include						
In Year 8, students Knowledge journey increases in Challenge to include				Indices and standard formConstructionsExpressions and formulaeCirclesDealing with dataPythagoras	Constructions Circles Pythagoras	
In Year 7, students Knowledge journey includes		Number Area and volume Statistics, graphs and	Decimals and ratio Lines and angles Calculating with fractions	Multiplicative reasoning Sequences, inequalities Equations and proportion	Graphs Probability Comparing shapes	
Analysing and displaying data Number skills Expressions, functions and formulae Decimals and measures Fractions	Probability Ratio and proportion Lines and angles Sequences and graphs Transformations	charts Expressions and equations Real-life graphs; Straight-line graphs	Straight-line graphs Percentages, decimals and fractions		bar9 2.10bee	

Developing Progress

Students have increasing confidence to reason, interpret and communicate mathematically Students working at this level can, generally:

- Make some deductions and from mathematical information
- Construct chains of reasoning
- Communicate information
- Present proofs and argument and critically evaluate a given way of presenting information
- Use and apply standard techniques.

- Recall and use some notation, terminology, facts and definitions; perform routine procedures including some multi-step procedures
- Interpret and communicate basic information; make deductions and use reasoning to obtain results
- Solve problems by translating simple mathematical and non-mathematical problems into mathematical processes
- Provide basic evaluation of methods or results
- Interpret results in the context of the given problem

In Year 9, students' Knowledge journey increases in Challenge further to include.....

In Year 8, students' Knowledge journey increases in Challenge to include				Indices and standard form Expressions and formulae Dealing with data	Constructions Circles Pythagoras
In Year 7, students' Knowledge journey includes		NumberDecirArea and volumeLinesStatistics, graphs andCalcut	Decimals and ratio Lines and angles Calculating with fractions	Multiplicative reasoning Sequences, inequalities Equations and proportion	Prisms Graphs Probability Comparing shapes
Analysing and displaying data Number skills Expressions, functions and formulae Decimals and measures Fractions	Probability Ratio and proportion Lines and angles Sequences and graphs Transformations	charts Expressions and equations Real-life graphs; Straight-line graphs	Straight-line graphs Percentages, decimals and fractions		

Achieving Progress

Students are able to demonstrate fluency in straight forward mathematical contexts and are developing an ability to decision make and solve problems. Students working at this level can, generally:

- Perform routine single and multi-step procedures effectively by recalling applying and interpreting notation, terminology, facts, definitions and formulae
- Interpret and communicate information effectively
- Make deductions, inferences and draw conclusions
- Construct chains of reasoning, including arguments
- Generate strategies to solve mathematical and non-mathematical problems by translating them into mathematical processes, realising connections between different parts of mathematics

- Translate problems in mathematical or non-mathematical contexts into a process or a series of mathematical processes
- Make and use connections between different parts of mathematics
- Interpret results in the context of the given problem
- · Evaluate methods used and results obtained
- Evaluate solutions to identify how they may have been affected by assumptions made

In Year 9, students' Knowledge journey increases in Challenge further to include.....

In Year 8, students' Knowledge journey increases in Challenge to include				Indices and standard form Expressions and formulae Dealing with data	Constructions Circles Pythagoras
In Year 7, students' Knowledge journey includes		NumberDecimeArea and volumeLinesStatistics, graphs andCalcu	Decimals and ratio Lines and angles Calculating with fractions	Sequences, inequalities Equations and proportion	Graphs Probability Comparing shapes
Analysing and displaying data Number skills Expressions, functions and formulae Decimals and measures Fractions	Probability Ratio and proportion Lines and angles Sequences and graphs Transformations	charts Expressions and equations Real-life graphs; Straight-line graphs	Straight-line graphs Percentages, decimals and fractions		company Souther

Exceeding Progress

Students have an extensive ability to reason, interpret and communicate mathematically. Students working at this level can, generally:

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- Make deductions, inferences and draw conclusions from mathematical information
- Construct chains of reasoning to achieve a given result
- Interpret and communicate information accurately
- Present arguments and proofs
- Asses the validity of an argument and critically evaluate a given way of presenting information

- Perform multi-step procedures effectively by applying terminology and using formulae
- Interpret and communicate information effectively
- Use strategies to solve mathematical and non-mathematical problems by translating them into mathematical processes, realising connections between different parts of mathematics and confidently combining skills to solve problems

In Year 9, students' Knowledge journey increases in Challenge further to include.....

In Year 8, students' Knowledge journey increases in Challenge to include				Indices and standard form Expressions and formulae Dealing with data	Constructions Circles Pythagoras
In Year 7, students' Knowledge journey includes		NumberDecimeArea and volumeLines aStatistics, graphs andCalculation	Decimals and ratio Lines and angles Calculating with fractions	Sequences, inequalities Equations and proportion	Graphs Probability Comparing shapes
Analysing and displaying data Number skills Expressions, functions and formulae Decimals and measures Fractions	Probability Ratio and proportion Lines and angles Sequences and graphs Transformations	charts Expressions and equations Real-life graphs; Straight-line graphs	Straight-line graphs Percentages, decimals and fractions		comparing shapes

Excelling Progress

Students have an extensive ability to solve problems within mathematics and in other contexts. Students working at this level can, generally:

- Perform procedures accurately
- Interpret and communicate complex information accurately
- Make deductions and inferences and draw conclusions
- Construct substantial chains of reasoning, including convincing arguments and formal proofs
- Generate efficient strategies to solve complex mathematical and non-mathematical problems by translating them into a series of mathematical processes

- Make and use connections, which may not be immediately obvious, between different parts of mathematics
- Interpret results in the context of the given problem
- Critically evaluate methods, arguments, results and the assumptions made

In Year 9, students' Knowledge journey increases in Challenge further to include						
In Year 8, students' Knowledge journey increases in Challenge to include				Indices and standard formConstructionsExpressions and formulaeCirclesDealing with dataPythagorasMultiplication processionDeigen	Constructions Circles Pythagoras	
In Year 7, students' Knowledge journey includes		Number Area and volume Statistics, graphs and	Decimals and ratio Lines and angles Calculating with fractions	Sequences, inequalities Equations and proportion	Graphs Probability Comparing shapes	
Analysing and displaying data Number skills Expressions, functions and formulae Decimals and measures Fractions	Probability Ratio and proportion Lines and angles Sequences and graphs Transformations	charts Expressions and equations Real-life graphs; Straight-line graphs	Straight-line graphs Percentages, decimals and fractions		barri 9 anob ca	