Personalised Learning Checklist

Subject: Maths

Year group: Stage 9

Dear Student,

The list below is the learning you should have completed. Your teacher will use the list to check your progress during this time. It may be used for short quizzes, mini assessments or homework. Where there are gaps your lessons will focus on improving your knowledge and understanding.

Objective	My personal RAG rating (Red- do not understand, Amber- some understanding, Green- I am confident			Teacher RAG rating
• Calculate with positive indices	RED	AMBER	GREEN	
• Calculate with roots	RED	AMBER	GREEN	
• Calculate with negative indices in the context of standard form	RED	AMBER	GREEN	
• Use a calculator to evaluate numerical expressions involving powers	RED	AMBER	GREEN	
• Use a calculator to evaluate numerical expressions involving roots	RED	AMBER	GREEN	
• Add numbers written in standard form	RED	AMBER	GREEN	
• Subtract numbers written in standard form	RED	AMBER	GREEN	
• Multiply numbers written in standard form	RED	AMBER	GREEN	
• Divide numbers written in standard form	RED	AMBER	GREEN	
• Use standard form on a scientific calculator including interpreting the standard form display of a scientific calculator	RED	AMBER	GREEN	
• Understand the difference between truncating and rounding	RED	AMBER	GREEN	
• Identify the minimum and maximum values of an amount that has been rounded (to nearest x, x d.p., x s.f.)	RED	AMBER	GREEN	
• Use inequalities to describe the range of values for a rounded value	RED	AMBER	GREEN	
• Solve problems involving the maximum and minimum values of an amount that has been rounded	RED	AMBER	GREEN	
• Understand the meaning of an identity	RED	AMBER	GREEN	
• Multiply two linear expressions of the form (x + a)(x + b)	RED	AMBER	GREEN	
• Multiply two linear expressions of the form (ax + b)(cx + d)	RED	AMBER	GREEN	
• Expand the expression (x + a)2	RED	AMBER	GREEN	
• Factorise a quadratic expression of the form $x^2 + bx$	RED	AMBER	GREEN	
• Factorise a quadratic expression of the form $x^2 + bx + c$	RED	AMBER	GREEN	
• Work out why two algebraic expressions are equivalent	RED	AMBER	GREEN	
• Create a mathematical argument to show that two algebraic expressions are equivalent	RED	AMBER	GREEN	
• Distinguish between situations that can be modelled by an expression or a formula	RED	AMBER	GREEN	
• Create an expression or a formula to describe a situation	RED	AMBER	GREEN	
• Recognise and use the Fibonacci sequence	RED	AMBER	GREEN	
• Generate Fibonacci type sequences	RED	AMBER	GREEN	
• Solve problems involving Fibonacci type sequences	RED	AMBER	GREEN	
• Explore growing patterns and other problems involving quadratic sequences	RED	AMBER	GREEN	

• Generate terms of a quadratic sequence from a written rule	RED	AMBER	GREEN	
• Find the next terms of a quadratic sequence using first and second differences	RED	AMBER	GREEN	
• Generate terms of a quadratic sequence from its nth term	RED	AMBER	GREEN	