THE TODHIGH WAY (KS3)

We are great learners because we show *care, respect* and *honesty.*

Sign and keep your contractual promise……..

MY BEST EFFORT

I understand how important education, reading, writing and number-work are. I will learn, think and behave in the best way I know how and do whatever it takes to learn and to help my fellow students learn, too. I will be caring, respectful and honest with myself and my community.

SHOW **PRIDE** IN YOUR LEARNING

P is for **PRESENTATION:** My work is always neat and well presented.
I take pride in the way I present my work in my book, folder or ICT file. Work that is well presented shows **care** and attention to detail.
I understand that it is **respectful** to present my work well for my teachers and other students.
Taking care in my work is a great learning habit.

R is for **RESILIENCE:** I am not a quitter.
I never give up. I remain positive and resilient even when the work is hard. I do what it takes to succeed, for as long as it takes, in my class-learning and homework.
I learn from mistakes and try even harder next time, because I **care** about my future.
Resilience is a great learning habit.

I is for **INDEPENDENCE :** I am self -motivated and self-reliant.
I am a respectful learner. I know it's my job to work things out for myself. I try things out and do research on my own. I am curious to learn new things and I can motivate myself to do well.
Independence is a great learning habit.

D is for **DEADLINES:** I can meet deadlines.
I do not let people down, because I show care, respect and honesty towards my learning. I stick to deadlines so that I do not fall behind with my learning. I meet classwork, homework, assessment and revision deadlines.
Meeting (or beating) deadlines is a great learning habit.

E is for **EXCELLENCE**: I strive for excellence and do not settle for second best.
I aim to hit and beat my challenging targets in each subject. I want to be ***aspirational , inspirational*** and ***remarkable*** in what I do. I am for excellence in my class learning, my preparation for tests and in my homework.
Striving for excellence is a great learning habit.

Be resilient and take responsibility for **your** learning.

"Great things never come from comfort zones."

Continue to challenge yourself and complete as many challenges as you can over the year!

Progress will be measured on how many stamps you receive on your loyalty to learning card.

Be independent and use your homework time table to plan when you can complete these challenges to the best of your ability, ensuring you have shown care, respect and honesty to-wards your personal learning journey.

Going the extra mile will put you on the road to success!

Your loyalty to **your** learning will be closely monitored and rewards will be issued throughout each half term.

Take **PRIDE** in your work and your future aspirations.

" Small Progress Is Still Progress."

Year 7 Maths: I am predicted a grade …… at the end of KS3.

Curriculum Timeline

	Pi	Theta	Delta
Term 1a	Analysing and displaying data Calculating	Analysing and displaying data Number Skills	Analysing and displaying data Number Skills
Term 1b	Equations, functions and formulae Graphs	Equations, functions and formulae Decimals and Measures	Equations, functions and formulae Fractions
Term 2a	Factors and multiples Decimals and Measures	Fractions Probability	Angles and shapes Decimals
Term 2b	Angles and lines	Ratio and Proportion	Equations
Term 3a	Measuring and shapes Fractions, decimals and percentages	Lines and Angles Sequences and Graphs	Multiplicative reasoning Perimeter, Area and Volume.
Term 3b	Transformations	Transformations	Sequences and graphs

Extra Hot	Demonstrate what you know about interior and exterior angles in polygons? Include the importance of the word 'regular'.	What is the golden ratio?	Research Pythagoras. Find at least 5 detailed facts and present them in a creative way.	Write a 'Fact File' on 3 famous mathematicians. Include a picture, why they are famous and at least 5 facts. Do not copy from the source!
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Hot	Use a visual representation to show what angles in triangles and quadrilaterals add up to.	Why are pie charts useful? Write a step-by-step guide for how to construct a pie chart.	Discuss the advantages, disadvantages and uses of the different forms of representing data that you know.	What do you notice about square numbers, cube numbers and triangular numbers? Use visual forms as well as numbers.
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Medium	Design a leaflet to help other students with their expanding skills.	What unit conversions do you need for every day life? (cm to m) How do you convert between units?	Clearly describe the difference between a term, an expression and an equation.	Research 5 careers where an understanding of maths is important—Why?
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Mild	How are percentages, fractions and decimals linked?	Use diagrams to demonstrate how improper fractions and mixed numbers are equivalent.	Give 5 examples of mathematics in the 'real' world. Why are these useful to understand?	Can you have negative fractions or decimals? Prove it!
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Extra Mild	Create a poster to explain the order of operations.	Design an information leaflet about 'averages'.	Define a factor and a multiple. How are they different?	What is a prime number? Give extra details.
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning

PROGRESS TIME LINE : Tally up loyalty to learning commendations

Summer Term 2

Summer Term 1

Spring Term 2

Spring Term 1

Autumn Term 2

Autumn Term 1

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Year 8 Maths: I am predicted a grade …… at the end of KS3.

Curriculum Timeline

	Pi	Theta	Delta
Term 1a	Number properties and calculations Shapes and measures in 3D	Number Area and Volume	Factors and Powers Working with powers
Term 1b	Statistics Expressions and equations	Statistics, graphs and charts Expressions and equations	2D shapes and 3D solids Real life graphs
Term 2a	Decimal calculations Angles	Real-life graphs Decimals and ratio	Transformations Fractions, decimals and percentages
Term 2b	Number properties	Lines and angles	Constructions and loci
Term 3a	Sequences Fractions and percentages	Calculating with fractions Straight Line Graphs	Probability Scale drawings and measures
Term 3b	Probability	Percentages, decimals and fractions	Graphs

Extra Hot	Demonstrate what you know about interior and exterior angles in polygons? Include the importance of the word 'regular'.	What is the golden ratio?	Research Pythagoras. Find at least 5 detailed facts and present them in a creative way.	Write a 'Fact File' on 3 famous mathematicians. Include a picture, why they are famous and at least 5 facts. Do not copy from the source!
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Hot	Use a visual representation to show what angles in triangles and quadrilaterals add up to.	Why are pie charts useful? Write a step-by-step guide for how to construct a pie chart.	Discuss the advantages, disadvantages and uses of the different forms of representing data that you know.	What do you notice about square numbers, cube numbers and triangular numbers? Use visual forms as well as numbers.
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Medium	Design a leaflet to help other students with their expanding and/or factorising skills.	How do we convert between units that we need in every day life?	Clearly describe the difference between a term, an expression and an equation.	Research 5 careers where an understanding of maths is important—Why?
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Mild	How are percentages, fractions and decimals linked?	Use diagrams to demonstrate how improper fractions and mixed numbers are equivalent.	Give 5 examples of mathematics in the 'real' world. Why are these useful to understand?	Can you have negative fractions or decimals? Prove it!
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Extra Mild	Create a poster to explain the order of operations and the importance of following this.	Design an information leaflet about 'averages' and range.	Define LCM and HCF. How do you calculate these?	Define prime numbers, square numbers, cube numbers and triangular numbers.
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning

PROGRESS TIME LINE : Tally up loyalty to learning commendations

Summer Term 2

Summer Term 1

Spring Term 2

Spring Term 1

Autumn Term 2

Autumn Term 1

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Year 9 Maths: I am predicted a grade …… at the end of KS3.

Curriculum Timeline

	Pi	Theta	Delta
Term 1a	Number Calculations Sequences and equations	Indices and standard form Expressions and formulae	Powers and roots Quadratics
Term 1b	Statistics Fractions, decimals and percentages	Dealing with data Multiplicative reasoning	Inequalities, equations and formulae Collecting and analysing data
Term 2a	Geometry in 2D and 3D Algebraic and real-life graphs.	Constructions Equations, inequalities and proportionality	Multiplicative reasoning Non-linear graphs
Term 2b	Multiplicative reasoning	Circles, Pythagoras and prisms	Accuracy and measures
Term 3a	Algebraic and geometric formulae Probability	Sequences and graphs Probability	Graphical solutions Trigonometry
Term 3b	Polygons and transformations	Comparing shapes	Mathematical reasoning

Extra Hot	Demonstrate what you know about interior and exterior angles in polygons? Include the importance of the word 'regular'.	Investigate Pascal's triangle. Be creative in what you can find out.	What imperial units do we still use today in society? What are the approximate metric conversions for these units?	Write a 'Fact File' on 3 famous mathematicians. Include a picture, why they are famous and at least 5 facts. Do not copy from the source!
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Hot	Research Pythagoras. Find at least 5 detailed facts about him and the theorem and present them in a creative way.	Explain how you convert between units of area or volume? Why could this be needed?	Discuss the advantages, disadvantages and uses of the different forms of representing data that you know.	What is the golden ratio? Link it to other areas of mathematics and the 'real' world.
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Medium	Demonstrate visually how to expand a single bracket. Now try a binomial? Trinomial?	How do you compare two pie charts? What must you consider?	Clearly describe the difference between a term, an expression, an equation and an identity.	Research 5 careers where an understanding of maths is important—Why?
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Mild	How are percentages, fractions and decimals linked? Use both visual and abstract concepts to demonstrate.	Use diagrams to demonstrate how improper fractions and mixed numbers are equivalent.	Give 5 examples of mathematics in the 'real' world. Why are these useful to understand?	Can you have negative fractions or decimals? Prove it!
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning
Extra Mild	Create a poster to explain the order of operations and the importance of following this.	Design an information leaflet about 'averages' and ranges. *Think of ALL the averages you know.*	Define LCM and HCF. How do you calculate these using prime numbers?	What do you notice about square numbers, cube numbers and triangular numbers? Use visual forms as well as numbers.
	Loyalty to learning	Loyalty to learning	Loyalty to learning	Loyalty to learning

PROGRESS TIME LINE : Tally up loyalty to learning commendations

Summer Term 2

Summer Term 1

Spring Term 2

Spring Term 1

Autumn Term 2

Autumn Term 1