Character strengths
Cross Curricular Links
Statistics
Geometry
Number
Algebra
Ratio and Proportion
Probability

Aylesford School
COURAGE CONFIDENCE CHARACTER

RESPECT SELF-DISCIPLINE MOTIVATION RESILIENCE INTEGRITY COURAGE OPEN-MINDEDNESS CONFIDENCE COMPASSION CURIOSITY

Year 9 | Fluency, Reasoning and Problem Solving | Year 10

Maths Learning Journey

Question
Have you ever thought about the likelihood of something happening ? Where else might probability feature in our daily lives?

TERM 6

Probability

- Sample space diagrams
- Venn diagrams
- Combined events

Revision

Revision
End of **Year** Examination

Independent Practice

Summer Break

YEAR 10

Working with Data

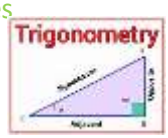
- Grouped frequency tables
- Displaying grouped data
- Scatter diagrams

Integrity and Resilience

TERM 5

Trigonometry

- Similar triangles
- Missing side
- Missing angle



Construction

- Compass and ruler constructions
- Bisectors
- Congruent triangles

Question
How does what you're learning link to prior and future learning?

Prisms

- Volume of prisms
- Volume of a cylinder
- Surface area

Integrity and Resilience

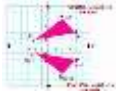
TERM 4

Transformations

- Reflections with axes
- Translation with axes

Transformations

- Rotation with axes
- Enlargement with axes



Real Life Graphs

- Draw distance time graphs
- Read real life graphs

Integrity and Resilience

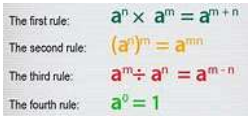
TERM 3

Graphs

- Gradient between two points
- Understanding y=mx+c
- Quadratic graphs

Equations, Expressions, Formulae

- Solving equations recap
- Equations with fractions
- Laws of indices with algebra
- Expanding double brackets



Using Measures

- Speed
- Density
- Convert area and volume

Integrity and Resilience

TERM 2

Percentages

- Percentages recap
- Using multipliers to increase
- Decrease
- Reverse percentages

Ratio and Proportion

- Ratio recap
- Direct proportion graph and formula
- Inverse proportion formula

Question
In maths, we are learning about formulae. Can you recall any scientific formulae you have used?

Accuracy

- Significant figures
- Estimation
- Upper and lower bounds
- Calculating with bounds

Integrity and Resilience

TERM 1

Indices

- Index laws (zero and negative)
- Standard form
- HCF/LCM with prime factors

Fractions

- Fractions recap
- Add/subtract mixed numbers
- Multiply/divide mixed numbers

Question
Where else is standard form used?

CROSS-CURRICULAR LINKS

Science → Food → Art → Geography

TRIPS

UKMT → Numeracy day

Welcome

CURRICULUM OVERVIEW