



# Learning Journey: Year 9

## Mathematics

Final Projected  
Grade last year:

*I am happy/unhappy with my final projected grade from last year because ...*

*To continue to improve my projected grade I need to focus on the habit of \_\_\_\_\_ by ...*

### Term 1:

#### Sequences and Straight line Graphs

Multiples  
Substitution  
Find missing terms in a sequence  
Identify type of sequence  
Find nth term of a sequence  
Plot co-ordinates  
Plot straight line graphs  
Work with gradient and y intercept of a line

#### Compound measures

Powers of 10 & Place value  
Metric & Imperial measurements  
Approximation and rounding S.F. & D.P  
Bounds  
Standard form  
Time  
Compound measures – speed, density  
Speed Distance time graph  
Conversion graphs

TA1 Projected Grade:

### Term 2:

#### Linear simultaneous equations

Like terms  
Index notation  
Expand, Factorise expressions  
Form expressions  
Change the subject  
Solve simultaneous equations  
Simultaneous equations graphically

#### Circles

Properties of shapes  
Constructions  
Parts of a circle  
Circumference of a circle  
Area of a circle  
Composite area  
Volume of a cylinder  
Surface area of a cylinder

TA2 Projected Grade:

### Term 3:

#### Transformations and similarity

Rotational Symmetry  
Reflections  
Rotations  
Translations  
Tessellations  
Congruence  
Similar shapes  
Enlargements

#### Right angles triangles

Square and Square rooting  
Pythagoras Theorem  
Trigonometry  
Sin, Cos, Tan Ratio

Final Projected Grade:

### Careers:

*The career that interests me is ...*

*Subject will help me achieve this because ...*

METG



**LEARNING**  
HABITS

**Hard working**  
**Inquisitive**  
**Resilient**



**CHARACTER**  
HABITS

**Respectful**  
**Responsible**  
**Aspirational**