## Assessment

A task<br>Mental computation<br>End of Term Test

7th week of Term<br>Last week of Term<br>Last week of Term

## Chapter

Strand<br>Sub-Strand

## Content Description

Number and Algebra Real Numbers

Measurement \& Geometry Pythagoras \& trigonometry

Area
Chapter 3 (2 weeks)

## Linear Graphs

Chapter 4
(2 weeks)

## Review

Chapter 5
(2 weeks)

* Apply index laws to numerical expressions with integer indices
^ connecting different strategies for simplifying expressions with indices to illustrate the meaning of negative indices
$\star$ moving fluently between representations of numeric and algebraic terms with negative indices, and applying understanding of negative indices to calculations
* applying knowledge of index laws to algebraic terms and simplifying algebraic expressions, using both positive and negative integral indices
^ Investigate Pythagoras' Theorem and its application to solving simple problems involving right angled triangles
* understanding that Pythagoras' Theorem is a useful tool in determining unknown lengths in right-angled triangles and has widespread applications
$\star$ recognising that right-angled triangle calculations may generate results that can be integral, fractional or irrational numbers known as surds
* Calculate the areas of composite shapes
$\star$ understanding that partitioning composite shapes into rectangles and triangles is a strategy for solving problems involving perimeter and area
* Calculate the surface area of cylinders and solve related problems
ฝ analysing nets of prisms and cylinders to establish formulas for surface area
* Solve problems involving surface area of right prisms
$\star$ building on the understanding of area to become fluent with calculation, and identifying that area relationships are used in the workplace and everyday life
$\star$ Sketch linear graphs using the coordinates of two points
$\star$ determining linear rules from suitable diagrams, tables of values and graphs and describing them both using words and algebra
* Sketch simple non-linear relations with and without the use of digital technologies
$\star$ sketching parabolas, hyperbolas, circles
All of above

