

# SENIOR SCHOOL

preparing for the world

## IGCSE Mathematics Module 6

## Graphs

By the end of this unit we will have covered the following areas.

Objective	Revision Guide Ch.	Can do?	Ex. book page ref.	Revised?
Demonstrate familiarity with Cartesian coordinates in two dimensions				
Calculate gradient, length and midpoint of a line segment given two points	19		213-214	
Obtain the equation of a straight line graph in the form $y = mx + c$	19		215-216	
Determine the equation of parallel lines	19			
Construct tables of values and draw graphs for different functions of the form $y = ax^n$ (quadratics, cubics and reciprocals) where $n = -2, -1, 0, 1, 2, 3$ and $y = a^x$	18		211-213 217-224	
Estimate gradients of curves by drawing tangents	18		218-221	
Interpret and use graphs in practical situations in conversion graphs	17		224-225	
Solve equations using graphical methods	18		225-229	
Interpret and use travel graphs	17		229-235	
Calculate speed, acceleration, deceleration and distance traveled from distance and speed-time graphs	17		229-235	
Represent inequalities graphically and use this in the solution of simple linear programming problems	25		172-177	

### Vocabulary:

