

<u>YEAR 11 – MATHEMATICS (Week 5) 2021-2022</u>

Subject	Mathematics
Class/ Section	Year 11
Week	26 th September to 30 th September
Work send to students by	Google classroom
Total number of lessons per week	5
Unit 15.5	Graphs Of Cubic Functions
Key Vocabulary	Cubic Functions, x and y intercepts
Lessons 1,2,3,4,5 –Live Zoom lesson along with face to face instruction for students present on a particular day Work will be assigned in Google classroom which will be matched to the students ability.	 Specific Learning objectives Expand and simplify three brackets Recognise and sketch Quadratic and Cubic graphs Solve problems involving polygons and parallel lines from the worksheet. Specific Intended Learning Outcomes By the end of the lesson students will be able to To Expand and simplify three brackets To Recognise and sketch Quadratic and Cubic graphs To do problems involving polygons and parallel lines from the worksheet

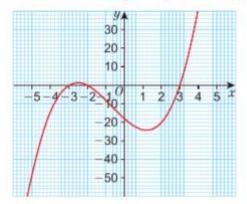
Tasks/Activities

Assessment Criteria/ Essential questions

The teacher will introduce the concepts using PPT. Complete the questions assigned from the text book and the worksheet. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.

1.

Problem-solving The graph has equation $y = x^3 + ax^2 + bx + c$



Work out the values of a, b and c.

2.

- a Expand the expression (x-3)(x+4)(x-2)
- b What type of graph is y = (x-3)(x+4)(x-2)?
- Write down the solutions to the equation (x-3)(x+4)(x-2)=0.
- **d** Where does the graph intersect the *y*-axis?

Assessment objectives expected by the board with respect to the above questions are listed below.

AO1: Use and apply standard techniques

AO2: Reason, interpret and communicate mathematically

AO3: Solve problems within mathematics and in other contexts.

Resources

Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book PPT and worksheet