

YEAR 11 (IGCSE) – MATHEMATICS NOVEMBER 2020

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| Subject | Mathematics |
| Class/ Section | Year 11 H and 11G |
| Week | 15th to 19th November |
| Work send to students by | Google classroom / Zoom |
| Total number of lessons per week | 5 |
| UNIT 10 (Book 2) | Graphs 9 |
| <p>Lessons 1&2 - Graphs 9</p> <p>Live Zoom lesson</p> <p>Work will be assigned in Google Classroom which will be matched to the students ability</p> | <p>Gradient of a function(Page 375) DIFFERENTIATING $y = kx^n$</p> <p>Learning Objective:</p> <ul style="list-style-type: none"> • To understand the relationship between the gradient of a function and its rate of change • Differentiate integer powers of x <p>Intended Learning Outcome:</p> <p>By the end of the lesson students will be able to</p> <ul style="list-style-type: none"> • To understand the relationship between the gradient of a function and its rate of change • Differentiate integer powers of x |
| Task | Text Book(Book 2)Page 377 to 380– Ex 1, 1*, Ex 2, 2* |
| Resources | <p>Text Book : Edexcel International GCSE (9-1) Mathematics A Student Book 1&2 by D A Turner I A Potts</p> <p>PPT</p> |

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| <p>Lesson 3&4 - Graphs 9</p> <p>Live Zoom lesson Work will be assigned in Google Classroom which will be matched to the students ability</p> <p>Task</p> <p>Resources</p> | <p>EQUATION OF THE TANGENT TO A CURVE (Page 381)</p> <p>Learning Objective:</p> <ul style="list-style-type: none"> • Find the gradient of a tangent at a point by differentiation • Find the equation of the tangent to a curve at a given point. • Calculate the rate of change at any given moment using the gradient function. <p>Intended Learning Outcome: By the end of the lesson students will be able to</p> <ul style="list-style-type: none"> • Find the gradient of a tangent at a point by differentiation • Find the equation of the tangent to a curve at a given point. • Calculate the rate of change at any given moment using the gradient function. <p>Text Book(Book 2) – Page 383 – Ex 3, 3*</p> <p>Text Book : Edexcel International GCSE (9-1) Mathematics A Student Book 1&2 by D A Turner I A Potts</p> <p>PPT</p> |
| <p>Lessons 5 -Graphs 9</p> <p>Live Zoom lesson Work will be assigned in Google Classroom which will be matched to the students ability</p> <p>Task</p> <p>Resources</p> | <p>STATIONARY POINTS (Page 385)</p> <p>Learning Objective:</p> <ul style="list-style-type: none"> • Find the co-ordinates of the maximum and minimum points on a curve <p>Intended Learning Outcome: By the end of the lesson students will be able to</p> <ul style="list-style-type: none"> • Find the co-ordinates of the maximum and minimum points on a curve <p>Text Book(Book 2) – Page 387– Ex 4, 4*</p> <p>Text Book : Edexcel International GCSE (9-1) Mathematics A Student Book 1&2 by D A Turner I A Potts</p> <p>PPT</p> |