

Remote learning – Maths 2020 (September-December).

These are guidelines only and you should contact the class teacher if you have specific questions about your son/daughter's remote learning.

Year	Topic	Resources available	Account Information
7 & 8 & 9	<p>September to Christmas</p> <p>Unit 1 Calculations and Accuracy</p> <p>Unit 2 Integers, Powers and Roots</p> <p>Unit 3 Fractions, Decimals & Percentages</p> <p>Unit 4 Averages and Measures</p> <p>Unit 5 Simplifying and Substitution</p> <p>Unit 6 Construction and Loci</p>	<p>Teaching and Learning:</p> <ul style="list-style-type: none"> Relevant video recordings/online lessons direct from them or links to quality lesson recordings via: https://corbettmaths.com/category/videos/ https://www.mathsgenie.co.uk/gcse.html https://classroom.thenational.academy/subjects-by-year <p>Tasks to undertake:</p> <ul style="list-style-type: none"> Your child's teacher will communicate to you/pupils the online work that needs completing. The platform that we use most for online tasks at KS3 is https://www.mymaths.co.uk/ Your teacher may ask you to undertake other work that will be communicated to via email. Learn the KEY KNOWLEDGE for your child's perspective year group from their knowledge retrieval test. This is in the form of a power point and can be sent to you by the class teacher. In the case of a localised lockdown where classes is moved to remote-learning for whole classes. The school will be using Seneca platform as a way to monitor student progress. <p>Other online resources:</p> <ul style="list-style-type: none"> https://www.bowlandmaths.org.uk/ http://www.clickview.co.uk/free https://mathigon.org/ https://www.mathematicsmastery.org/free-resources https://nrich.maths.org/ https://nrich.maths.org/12524 https://nrich.maths.org/solvingtogether https://www.topmarks.co.uk/maths-games https://whiterosemaths.com/homelearning/ <p>Wider reading: Pupils should make themselves familiar with the information provided in the knowledge organisers and knowledge retrieval tests. Mathematics in education and history https://mei.org.uk/closure-support</p>	<p>School email: Pupils should have access to their email accounts via the school website. Please contact your child's form tutor should they require this information.</p> <p>MyMaths: First level log-in Username: Duston Password: triangle</p> <p>Personal log-in Your child should already have this but please contact your child's maths teacher should you have any issues.</p> <p>Seneca: Make sure you are signed up. Username: (your school e-mail address) Password: Berrywood</p> <p>Your teacher will give you a code to allow you access to your class.</p>

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10	<p>September to Christmas</p> <p>Unit 1 Integers, Powers and Roots</p> <p>Unit 2 Lines, Angles & Shape</p> <p>Unit 3 Simplifying & Substitution</p> <p>Unit 4 Area and Perimeter</p> <p>Unit 5 Calculations and Accuracy</p> <p>Unit 6 Construction and Loci</p>	<p>Teaching and Learning:</p> <ul style="list-style-type: none"> Relevant video recordings/online lessons direct from them or links to quality lesson recordings via: https://corbettmaths.com/category/videos/ https://www.mathsgenie.co.uk/gcse.html https://classroom.thenational.academy/subjects-by-year https://vle.mathswatch.co.uk/vle/ <p>Tasks to undertake:</p> <ul style="list-style-type: none"> Workbooks should be available from the school's website – your child's teacher may also send them via email. Your child's teacher will communicate to you/pupils via email the online work that needs completing. The platforms that we use most for online tasks at KS4 are https://www.mymaths.co.uk/ https://vle.mathswatch.co.uk/vle/ Your teacher may ask you to undertake other work that will be communicated to via email. Learn the KEY KNOWLEDGE for your child's perspective year group from their knowledge retrieval test. This is in the form of a power point and can be sent to you by the class teacher. In the case of a localised lockdown where classes is moved to remote-learning for whole classes. The school will be using Seneca platform as a way to monitor student progress. <p>Other online resources:</p> <ul style="list-style-type: none"> https://mathigon.org/ https://nrich.maths.org/ https://nrich.maths.org/12524 https://nrich.maths.org/solvingtogether https://mathskitchen.com/topics <p>Wider reading: Pupils should make themselves familiar with the information provided in the knowledge organisers and knowledge retrieval tests.</p> <p>Mathematics in education and history https://mei.org.uk/closure-support</p>	<p>School email: Pupils should have access to their email accounts via the school website. Please contact your child's form tutor should they require this information.</p> <p>MyMaths: First level log-in Username: Duston Password: triangle</p> <p>Personal log-in Your child should already have this but please contact your child's maths teacher should you have any issues.</p> <p>Seneca: Make sure you are signed up. Username: (your school e-mail address) Password: Berrywood</p> <p>Your teacher will give you a code to allow you access to your class.</p> <p>Mathswatch: Username: firstnamesurname@dustonschool Password: berrywood</p>

Year 11

Year	Topic	Resources available	Account Information
11	<p>September to Christmas</p> <p>Workbook 1 Number & Algebra</p> <p>Workbook 2 Geometry and Shape</p> <p>Workbook 3 Data, Ratio & Proportion</p> <p>Workbook 4 Number & Algebra <i>phase 2</i></p> <p>Workbook 5 Geometry and Shape <i>phase 2</i></p>	<p>Teaching and Learning:</p> <ul style="list-style-type: none"> Relevant video recordings/online lessons direct from them or links to quality lesson recordings via: https://corbettmaths.com/category/videos/ https://www.mathsgenie.co.uk/gcse.html https://classroom.thenational.academy/subjects-by-year https://vle.mathswatch.co.uk/vle/ <p>Tasks to undertake:</p> <ul style="list-style-type: none"> Workbooks should be available from the school's website – your child's teacher may also send them via email. Your child's teacher will communicate to you/pupils via email the online work that needs completing. The platforms that we use most for online tasks at KS4 are https://www.mymaths.co.uk/ https://vle.mathswatch.co.uk/vle/ Your teacher may ask you to undertake other work that will be communicated to via email. Learn the KEY KNOWLEDGE for your child's perspective year group from their knowledge retrieval test. This is in the form of a power point and can be sent to you by the class teacher. In the case of a localised lockdown where classes is moved to remote-learning for whole classes. The school will be using Seneca platform as a way to monitor student progress. <p>Exam Preparation:</p> <ul style="list-style-type: none"> Pupils have access to selected past Edexcel GCSE papers from the new and old specification via https://www.methodmaths.com/login.html Other exam prep materials can be found here: https://corbettmaths.com/2019/04/01/gcse-practice-papers/ https://www.mathsgenie.co.uk/papers.html <p>Other online resources:</p> <ul style="list-style-type: none"> https://www.onmaths.com/ 	<p>School email: Pupils should have access to their email accounts via the school website. Please contact your child's form tutor should they require this information.</p> <p>MyMaths: First level log-in Username: Duston Password: triangle</p> <p>Personal log-in Your child should already have this but please contact your child's maths teacher should you have any issues.</p> <p>Seneca: Make sure you are signed up. Username: (your school e-mail address) Password: Berrywood</p> <p>Your teacher will give you a code to allow you access to your class.</p> <p>Mathswatch: Username: firstnamesurname@dustonschool Password: Berrywood</p> <p>Methodmaths: Centre: duston Username: firstnamesurname Password: Berrywood</p>

POST-16 Maths

Year	Topic	Resources available	Account Information
12	<p>September to Christmas Pure mathematics 1 Order of teaching: Teacher 1: Ch12 – Differentiation Ch13 – Integration Ch5 – Straight line graphs Ch6 – Circles Ch14 – Exponentials and logarithms</p> <p>Teacher 2 – Ch8 – The binomial expansion Ch7 – Algebraic methods Ch1 – Algebraic expressions Ch2 – Quadratics Ch3 – Equations and inequalities Ch4 – Graphs Ch9 – Trigonometric ratios Ch10 – Trigonometric identities and equations Ch11 - Vectors</p>	<p>Teaching and Learning:</p> <ul style="list-style-type: none"> Relevant video recordings/online lessons or links to quality lesson recordings via: https://www.drfrostmaths.com/ https://www.examsolutions.net/a-level-maths/edexcel/ https://www.mathsgenie.co.uk/newalevel.html https://www.mymaths.co.uk/ <p>Tasks to undertake:</p> <ul style="list-style-type: none"> Textbooks, if not already supplied at the time of the lockdown are available online at: https://www.pearsonactivelearn.com/app/Home Teachers will communicate to pupils via email the online work that needs completing. The platforms that we use most for online tasks at KS5 are https://www.drfrostmaths.com/ Teachers may ask that other work is undertaken, this will be communicated to via email. <p>Exam Preparation:</p> <ul style="list-style-type: none"> Pupils have access to selected past Edexcel AS papers from the new and old specification via https://www.mathsgenie.co.uk/alevelpapers.html and these may also be set and analysed via https://www.drfrostmaths.com/ <p>Other online resources:</p> <ul style="list-style-type: none"> https://undergroundmathematics.org/ 	<p>School email: Pupils should have access to their email accounts via the school website. Please contact your child’s form tutor should they require this information.</p> <p>Dr Frost Maths: Username: school email address Password: password (unless changed)</p> <p>MyMaths: First level log-in Username: Duston Password: triangle</p> <p>Further levels are not available. Lessons can still be interacted with, however.</p> <p>Textbooks: Username: Firstname_Surname2022 Password: Berrywood20</p>

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13	<p>September to Christmas</p> <p>Teacher 1: Mechanics 2: Ch4 – Moments Ch5 – Forces and friction Ch6 – Projectiles Ch7 – Application of forces Ch8 – Further kinematics</p> <p>Teacher 2: Pure Mathematics 2: Ch6 – Trigonometric functions Ch7 – Trigonometry and modelling Ch9 – Differentiation Ch11 – Integration</p>	<p>Teaching and Learning:</p> <ul style="list-style-type: none"> Relevant video recordings/online lessons or links to quality lesson recordings via: https://www.drfrostmaths.com/ https://www.examsolutions.net/a-level-maths/edexcel/ https://www.mathsgenie.co.uk/newalevel.html https://www.mymaths.co.uk/ <p>Tasks to undertake:</p> <ul style="list-style-type: none"> Textbooks, if not already supplied at the time of the lockdown are available online at: https://www.pearsonactivelearn.com/app/Home Teachers will communicate to pupils via email the online work that needs completing. The platforms that we use most for online tasks at KS5 are https://www.drfrostmaths.com/ Teachers may ask that other work is undertaken, this will be communicated to via email. <p>Exam Preparation:</p> <ul style="list-style-type: none"> Pupils have access to selected past Edexcel AS papers from the new and old specification via https://www.mathsgenie.co.uk/alevelpapers.html and these may also be set and analysed via https://www.drfrostmaths.com/ <p>Other online resources:</p> <ul style="list-style-type: none"> https://undergroundmathematics.org/ 	<p>School email: Pupils should have access to their email accounts via the school website. Please contact your child's form tutor should they require this information.</p> <p>Dr Frost Maths: Username: school email address Password: password (unless changed)</p> <p>MyMaths: First level log-in Username: Duston Password: triangle</p> <p>Further levels are not available. Lessons can still be interacted with, however.</p> <p>Textbooks: Username: Firstname_Surname2021 Password: Berrywood20</p>

Further Maths

Year	Topic	Resources available	Account Information
12 FM	<p>September to Christmas</p>	<p>Teaching and Learning:</p> <ul style="list-style-type: none"> Relevant video recordings/online lessons or links to quality lesson recordings via: https://www.drfrostmaths.com/ https://www.examsolutions.net/a-level-maths/edexcel/ https://www.mymaths.co.uk/ 	<p>School email: Pupils should have access to their email accounts via the school website. Please contact your child's form tutor should they require this information.</p>

	<p>Teacher 1: Core Pure Maths 1: Ch3 - Series Ch6 - Matrices Ch7 - Linear transformation Ch8 – Proof by induction Ch1 – Complex numbers Ch2 – Argand diagrams</p> <p>Teacher 2: Decision maths: Ch1- Algorithms Ch2 – Graphs and networks Ch3 – Algorithms on graphs Ch4 – Route inspection Ch6 – Linear programming Ch8 – Critical path analysis</p>	<p>Tasks to undertake:</p> <ul style="list-style-type: none"> Textbooks, if not already supplied at the time of the lockdown are available online at: https://www.pearsonactivelearn.com/app/Home Teachers will communicate to pupils via email the online work that needs completing. The platforms that we use most for online tasks at KS5 are https://www.dr frostmaths.com/ Teachers may ask that other work is undertaken, this will be communicated to via email. <p>Exam Preparation:</p> <ul style="list-style-type: none"> Pupils have access to selected past Edexcel AS papers from the new and old specification via https://www.examsolutions.net/a-level-maths/edexcel/ and these may also be set and analysed via https://www.dr frostmaths.com/ <p>Other online resources:</p> <ul style="list-style-type: none"> https://undergroundmathematics.org/ 	<p>Dr Frost Maths: Username: school email address Password: password (unless changed)</p> <p>MyMaths: First level log-in Username: Duston Password: triangle</p> <p>Further levels are not available. Lessons can still be interacted with, however.</p> <p>Textbooks: Username: Firstname_Surname2022 Password: Berrywood20</p>
Year	Topic	Resources available	Account Information
13 FM	<p>September to Christmas</p> <p>Teacher 1: Applied units: Decision maths encompassing parts of chapters 2-8 Further statistics encompassing</p>	<p>Teaching and Learning:</p> <ul style="list-style-type: none"> Relevant video recordings/online lessons or links to quality lesson recordings via: https://www.dr frostmaths.com/ https://www.examsolutions.net/a-level-maths/edexcel/ https://www.mymaths.co.uk/ <p>Tasks to undertake:</p> <ul style="list-style-type: none"> Textbooks, if not already supplied at the time of the lockdown are available online at: https://www.pearsonactivelearn.com/app/Home 	<p>School email: Pupils should have access to their email accounts via the school website. Please contact your child’s form tutor should they require this information.</p> <p>Dr Frost Maths: Username: school email address Password: password (unless changed)</p> <p>MyMaths: First level log-in Username: Duston</p>

	<p>parts of chapters 3-8</p> <p>Teacher 2: Core Pure Maths 2: Ch1 – Complex numbers Ch2 – Series Ch3 – Methods in calculus Ch4 – Volumes of revolution Ch5 – Polar coordinates Ch6 – Hyperbolic functions</p>	<ul style="list-style-type: none"> Teachers will communicate to pupils via email the online work that needs completing. The platforms that we use most for online tasks at KS5 are https://www.drfrostmaths.com/ Teachers may ask that other work is undertaken, this will be communicated to via email. This will be used more in 13 Further Maths than on other mathematical courses. <p>Exam Preparation:</p> <ul style="list-style-type: none"> Pupils have access to selected past Edexcel AS papers from the new and old specification via https://www.examsolutions.net/a-level-maths/edexcel/ and these may also be set and analysed via https://www.drfrostmaths.com/ <p>Other online resources:</p> <ul style="list-style-type: none"> https://undergroundmathematics.org/ 	<p>Password: triangle</p> <p>Further levels are not available. Lessons can still be interacted with, however.</p> <p>Textbooks: Username: Firstname_Surname2021 Password: Berrywood20</p>
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CORE Maths

Year	Topic	Resources available	Account Information
12	<p>September to Christmas</p> <p>Teacher 1: Analysis of data Estimation</p> <p>Teacher 2: Maths for personal finance</p>	<p>Teaching and Learning:</p> <ul style="list-style-type: none"> Specific sections will be linked to GCSE content and relative videos will be shared from: https://corbettmaths.com/category/videos/ https://www.mathsgenie.co.uk/gcse.html <p>Tasks to undertake:</p> <ul style="list-style-type: none"> Textbooks will have been supplied, so work will often be given based on these textbooks. Teachers will communicate to pupils via email the online work that needs completing. Teachers may ask that other work is undertaken, this will be communicated to via email. <p>Exam Preparation:</p> <ul style="list-style-type: none"> Pupils have access to selected past Edexcel AS papers from the new and old specification via https://allaboutmaths.aqa.org.uk/coremaths <p>Other online resources:</p> <ul style="list-style-type: none"> https://undergroundmathematics.org/ 	<p>School email: Pupils should have access to their email accounts via the school website. Please contact your child's form tutor should they require this information.</p>

