2 Week Independent Learning plan **Week 11 and 12**

Monday June 8th to Friday June 19th

Select your set (ctrl + click) or scroll down for lessons:

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| Group | Teacher | Support contact details |
| [Set 1](#Set1) | Miss Davies | cdavies@Waseleyhills.worcs.sch.uk |
| Clicking Images, Stock Photos & Vectors | Shutterstock[Set 2](#Set2) | Mr Watkins | h2watkins@Waseleyhills.worcs.sch.uk |
| [Set 3](#Set3) | Mr Desai | ddesai@Waseleyhills.worcs.sch.uk |
| [Set 4](#Set4) | Dr Parsons | sparsons@Waseleyhills.worcs.sch.uk |
| [Set 5](#Set5) | Mr Peace | jpeace@Waseleyhills.worcs.sch.uk |
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Three stages to online learning

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| **Stage One – Reading Task** | **Stage Two – Completing Tasks** | **Stage Three – Assessing your learning and feedback** |
| Read the lessons in the table below. Think about what you need to learn from the task. It may help to look at the other lessons too as this will show you where your learning is heading. | Find the resources you need. In some instances you may need to log into HomeAccess+ and find the file on the coursework drive (S). Login with your normal school username and password. Use the resource as described to complete the suggested task. Reflect on the teacher’s question.  [Click here for HomeAccess+ drive](about:blank) | At the end of the two weeks you will be set a task by your teacher on Show My Homework. This is submitted in SMHWK. This task will assess your learning and allow us to give you feedback.  These assessment tasks are optional but submitting them is very helpful for you and your teacher to understand what you have learnt. |



We are here to help you within school opening hours:

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| **Email your teacher** | **Join your teacher for a support chat session** | **Ring school reception** |
| You can now email your teacher using your Office 365 email address. You can also email Mr Baker or the Subject Leader using the contact info above. | You will also receive an invite during the two week period to join an online support chat with your teacher. | Call 0121 4535211 within school hours. They will email your teacher and ask them to contact you. |

SET 5 Year: 9 Topic/theme:

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| **Lesson** | **Aim:**  What you need to take from this lesson | **Resource(s) to use:**  Hyperlinks to videos etc  HomeAccess+ file location | | **Suggested task:** |
| 1 | In this lesson you will learn to solve simple equations. | Description of resource:  Location  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ equations-pdf.pdf  Answers:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ Answers\Solving-equations.pdf | | Description of what you need to do (step by step):  View video 110 on  <https://corbettmaths.com/2012/08/24/solving-equations/>  Then do  **Solving Equations**  **Q1)** [a],[b], & [c]  **Q2)** [a],[b], & [c]  **Q3)** [a],[b], & [c]  A question your teacher would have asked you at the end of this lesson is:  **Do Q1 in the Apply section at the end of the worksheet** |
| 2 | In this lesson you will learn to solve equations that contain fractions. | Description of resource:  Location  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ Fractional-Equations-pdf.pdf  Answers:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ Answers\ | | Description of what you need to do (step by step):  View video 111 on  <https://corbettmaths.com/2013/05/25/algebraic-equations/>  Then do  **Equations involving fractions**  **Q1)** [a],[b],[c] & [d]  **Q2)** [a],[b],[c] & [d]  A question your teacher would have asked you at the end of this lesson is:  **Question 3)** **[a]** |
| 3 | In this lesson you will learn to solve equations that contain letters on both sides. | Description of resource:  Location  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ Equations-letters-both-sides-pdf.pdf  Answers:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ Answers\Equations-Letters-Both-Sides-answers-pdf.pdf | | Description of what you need to do (step by step):  View video 113 on  https://corbettmaths.com/2012/08/24/solving-equations-with-letters-on-both-sides/  Then do  **Equations with letters on both sides**  **Q1)** [a],[b], & [c]  **Q2)** [a],[b], & [c]  **Q3)** [a],[b], & [c]  A question your teacher would have asked you at the end of this lesson is:  **Do Q1 in the Apply section at the end of the worksheet** |
| 4 | In this lesson you will learn to substitute numbers for letters | Description of resource:  Location  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\substitution-pdf2.pdf  Answers:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ Answers\Algebra-substitution.pdf | | Description of what you need to do (step by step):  View video 20 on  <https://corbettmaths.com/2013/05/22/line-graphs/>  Then do  **Substitution**  **Q1)** [a],[b],[c] & [d]  **Q2)** [a],[b],[c] & [d]  **Q3)** [a],[b],[c] & [d]A question your teacher would have asked you at the end of this lesson is:  **Do Q1 in the Apply section at the end of the worksheet** |
| 5 | In this lesson you will learn to work with inequalities. | Description of resource:  Location  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ Inequalities-pdf (1).pdf  Answers:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 5\ Answers\ Inequalities-Answers.pdf | | Description of what you need to do (step by step):  View video 177 on  <https://corbettmaths.com/2013/05/18/inequalities-on-a-number-line/>  Then do  **Inequalities**  **Q1)** [a], & [b]  **Q2)** [a], & [b]  **Q3)** [a],[b],[c], & [d]  **Q4)** [a],[b],[c], & [d]  A question your teacher would have asked you at the end of this lesson is:  **Do Q1 in the Apply section at the end of the worksheet** |
| **Need help?**  HomeAccess+ [https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap](about:blank) (use your normal school username and password).  Pupil and parent help page: [https://www.waseleyhills.worcs.sch.uk/coronavirus-independent-learning/help-for-parents-and-pupils](about:blank) | | | **How will we assess you learning?**  Exit ticket task on SMHWK after each two weeks of lessons. | |

SET 4 Year: 9 Topic/theme:

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| **Lesson** | **Aim:**  What you need to take from this lesson | **Resource(s) to use:**  Hyperlinks to videos etc  HomeAccess+ file location | | **Suggested task:** |
| 1 | In this lesson you will practise solving questions using angle facts | Description of resource: Worksheet on angle facts  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/Lessons 26 -30/Set4/angle-facts-pdf1  Video link  <https://corbettmaths.com/2016/07/31/angles-videos-for-textbook-exercise/> | | Description of what you need to do (step by step):   1. Watch the videos 2. Answer the following questions   Q1 (a,b,d,e,g,h)  Q2 (a,c,f))  Q3(a,e,h,i)  A question your teacher would have asked you at the end of this lesson is:  Can you make a poster that shows the angle facts you have used? Use some examples in your poster to explain to apply the angle facts |
| 2 | In this lesson you will practise solving questions using angle facts | Description of resource: Worksheet on angle facts  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/Lessons 26 -30/Set4/angle-facts-pdf1  Video link  <https://corbettmaths.com/2016/07/31/angles-videos-for-textbook-exercise/> | | Description of what you need to do (step by step):   1. Watch the videos 2. Answer the following questions   Q5 (a,b,d,e,g,h,j,k,m,n,p,q)    A question your teacher would have asked you at the end of this lesson is:  Looking at the questions in the right hand column, are you confident you know which angle fact to use for each question? |
| 3 | In this lesson you will practise solving angle questions that have triangles | Description of resource: Worksheet on angles in a triangle  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/ Lessons 26 -30/Set4/angles-in-a-triangle-pdf1  Video link  <https://corbettmaths.com/2012/08/10/angles-in-a-triangle/> | | Description of what you need to do (step by step):   1. Watch the video 2. Answer the following questions   Q1 (a,b,c,g,i)  Q2 (a,b,c,d,e,f,h,i)  A question your teacher would have asked you at the end of this lesson is:  Draw a triangle and mark the sides to show it’s isosceles. Now mark the equal angles. Do that three times by choosing to mark different sides. Are you confident that you know where the equal angles are? |
| 4 | In this lesson you will practise solving angle questions that have triangles | Description of resource: Worksheet on angles in a triangle  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/ Lessons 26 -30/Set4/angles-in-a-triangle-pdf1  Video link  <https://corbettmaths.com/2012/08/10/angles-in-a-triangle/> | | Description of what you need to do (step by step):   1. Watch the video 2. Answer the following questions   Q4  A question your teacher would have asked you at the end of this lesson is:  Question 2 and 4 of the Apply section at the end of the worksheet. |
| 5 | In this lesson you will learn about angles on parallel lines | Description of resource: Worksheet on angles on parallel lines  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/ Lessons 26 -30/Set4/angles-in-parallel-lines-pdf1  Video link  <https://corbettmaths.com/2013/04/04/parallel-lines-angles/> | | Description of what you need to do (step by step):   1. Watch the video 2. Answer the following questions   Q1  Q2  A question your teacher would have asked you at the end of this lesson is:  Can you draw a pair of corresponding angles?  Can you draw a pair of alternate angles? |
| **Need help?**  HomeAccess+ [https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap](about:blank) (use your normal school username and password).  Pupil and parent help page: [https://www.waseleyhills.worcs.sch.uk/coronavirus-independent-learning/help-for-parents-and-pupils](about:blank) | | | **How will we assess you learning?**  Exit ticket task on SMHWK after each two weeks oflessons. | |

SET 3 Year: 9 Topic/theme:

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| **Lesson** | **Aim:**  What you need to take from this lesson | **Resource(s) to use:**  Hyperlinks to videos etc  HomeAccess+ file location | | **Suggested task:** |
| 1 | In this lesson you will learn how to find a % change | Description of resource:  View video 233 on  <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions 1,2,3,4,5,6,7 and 8  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9 \Lessons 26-30\Set 3\  File Name:  Percentage change | | Description of what you need to do (step by step):  Watch the video.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  A question your teacher would have asked you at the end of this lesson is:  Find the % change when £8 is increased to £10 |
| 2 | In this lesson you will learn how to find a % of a given amount | Description of resource:  View video 234 on  <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions 1 ,2 and 3  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9 \Lessons 26-30\Set 3\  File Name:  Percentage of amounts | | Description of what you need to do (step by step):  Watch the video.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  A question your teacher would have asked you at the end of this lesson is:  Find 35% of 260g |
| 3 | In this lesson you will learn how to find a % amount using a calculator | Description of resource:  View video 235 on  <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions 1 ,2 and 3  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9 \Lessons 26-30\Set 3\  File Name:  Percentage calc | | Description of what you need to do (step by step):  Watch the video.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  A question your teacher would have asked you at the end of this lesson is:  Find 12.75% of 120g |
| 4 | In this lesson you will learn how to express one amount as a % of another | Description of resource:  View video 237 on  <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions 1,2 and 3  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9 \Lessons 26-30\Set 3\  File Name:  Expressing as a percentage | | Description of what you need to do (step by step):  Watch the video.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  A question your teacher would have asked you at the end of this lesson is:  Express 680g as a % of 1.3Kg |
| 5 | In this lesson you will learn how to find a new value after a % increase/decrease | Description of resource:  View video 238 on  <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions 1,2 and 3  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9 \Lessons 26-30\Set 3\  File Name:  Increasing by a percentage | | Description of what you need to do (step by step):  Watch the video.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  A question your teacher would have asked you at the end of this lesson is:  What is the new value after 1.37Kg is increased by 12% |
| **Need help?**  HomeAccess+ [https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap](about:blank) (use your normal school username and password).  Pupil and parent help page: [https://www.waseleyhills.worcs.sch.uk/coronavirus-independent-learning/help-for-parents-and-pupils](about:blank) | | | **How will we assess you learning?**  Exit ticket task on SMHWK after each two weeks oflessons. | |

SET 2 Year: 9 Topic/theme:

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| **Lesson** | **Aim:**  What you need to take from this lesson | **Resource(s) to use:**  Hyperlinks to videos etc  HomeAccess+ file location | | **Suggested task:** |
| 1 | In this lesson you will learn…  Revise ordering numbers, including negative values | Description of resource:  Worksheet on ordering numbers  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/Lessons 26 -30/Set 2/ ordering-numbers-pdf1  Video link  <http://corbettmaths.com/2013/06/06/ordering-numbers-including-negatives/> | | Description of what you need to do (step by step):  Watch the video and then answer all parts of all of the questions on the worksheet  A question your teacher would have asked you at the end of this lesson is:  Why do you think I set you this piece of revision at the start of this series of lessons? |
| 2 | In this lesson you will learn…  Revise addition and subtraction involving negative numbers | Description of resource:  Worksheet on addition and subtraction involving negative numbers  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/Lessons 26 -30/Set 2/Negatives-addition-and-subtraction  Video link  <https://corbettmaths.com/2013/06/08/negatives-addition-and-subtraction-2/> | | Description of what you need to do (step by step):  Watch the video and then answer the questions from the ‘Apply’ section of the worksheet  A question your teacher would have asked you at the end of this lesson is:  Why does subtracting a negative number have the same effect as adding that number on? |
| 3 | In this lesson you will learn…  Revise multiplication and division with negative numbers | Description of resource:  Worksheet on area of a trapezium  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/Lessons 26 -30/Set 2/Negatives-multiplication-and-division-pdf1  Video link  <https://corbettmaths.com/2012/08/20/multiplying-negative-numbers/>  and  <https://corbettmaths.com/2012/08/20/dividing-involving-negatives/> | | Description of what you need to do (step by step):  Watch the video and then answer all parts of questions 1 – 6 on the worksheet  A question your teacher would have asked you at the end of this lesson is:  If -2 x -3 = 6 what is –a x –b? |
| 4 | In this lesson you will learn…  Revise harder questions involving multiplication and division involving negative numbers | Description of resource:  Worksheet on area of a trapezium  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/Lessons 26 -30/Set 2/Negatives-multiplication-and-division-pdf1  Video link  <https://corbettmaths.com/2012/08/20/multiplying-negative-numbers/>  and  <https://corbettmaths.com/2012/08/20/dividing-involving-negatives/> | | Description of what you need to do (step by step):  Watch the video and then answer the questions from the ‘Apply’ section of the worksheet  A question your teacher would have asked you at the end of this lesson is:  Why are written questions harder? |
| 5 | In this lesson you will learn…  Answer questions on real life situations where negative numbers are used | Description of resource:  Worksheet on area of a trapezium  Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 9/Lessons 26 -30/Set 2/real-life-negatives-pdf1  Video link  <https://corbettmaths.com/2013/05/15/negative-numbers-temperature/> | | Description of what you need to do (step by step):  If you need to, watch the video again, then answer all of the questions on the worksheet  A question your teacher would have asked you at the end of this lesson is:  How could you come up with a way of making sure that you can remember the method for this? |
| **Need help?**  HomeAccess+ [https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap](about:blank) (use your normal school username and password).  Pupil and parent help page: [https://www.waseleyhills.worcs.sch.uk/coronavirus-independent-learning/help-for-parents-and-pupils](about:blank) | | | **How will we assess you learning?**  Exit ticket task on SMHWK after each two weeks oflessons. | |

SET 1 Year: 9 Topic/theme:

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| **Lesson** | **Aim:**  What you need to take from this lesson | **Resource(s) to use:**  Hyperlinks to videos etc  HomeAccess+ file location | | **Suggested task:** |
| 1 | In this lesson you will learn solving equations with letters on both sides by expanding single brackets first | Description of resource:  View video 113 on <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions: 4  Apply questions: All  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 1  File Name:  Equations-letters-both-sides | | Description of what you need to do (step by step):  Watch the video - shows how to solve equations with letters on both sides  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  Hints:  First step should be to expand single bracket first.  All other steps to solving is the same as covered in work done in Week 9 and 10.  Double check that you have dealt correctly with rules of signs and that you apply the correct method to collecting like terms.  A question your teacher would have asked you at the end of this lesson is:  Spot the mistake:  9(2-5x) = 5 - 8(7x -3)  18 - 45x = 5 - 56x - 3 |
| 2 | In this lesson you will learn solving equations by first cross-multiplying before expanding brackets. | Description of resource:  View video 112 on <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions: 1 and 2  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 1  File Name:  Cross-Multiplication | | Description of what you need to do (step by step):  Watch the video - shows how to approach cross multiplication to solve an equation.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  Hints:  Do one step at a time - taking short cuts may end up confusing you unnecessarily.  Take care of rules of signs.  Revisit skills and learning relating to solving equations since Week 9.  A question your teacher would have asked you at the end of this lesson is:  What are the first 2 steps for solving:  2/(5x-2) = -8/(7-4x) |
| 3 | In this lesson you will learn problem solving by solving equations linked with geometry facts. | Description of resource:  View video 114 on <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions: 2, 3, 4 and 5  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 1  File Name:  Equations-angles-perimeter | | Description of what you need to do (step by step):  Watch the video - showing how to solve angle and perimeter problems involving quadrilaterals and pentagons.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  Hints:  You will need to look up shape/angle facts relating to basic shape.  Make sure that you can justify/reason why you have made each part of your calculation.  Labelling your diagrams will help.  A question your teacher would have asked you at the end of this lesson is:  Three sides of an isosceles has lengths given by 3x-1, x+9 and x-1.  Explain why there are only 2 possible solutions for finding the length of the 2 equal sides. |
| 4 | In this lesson you will learn how to change the subject of an equation/formula by rearranging. | Description of resource:  View video 7 on <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions: All    Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 1  File Name:  changing-the-subject | | Description of what you need to do (step by step):  Watch the video - shows how to rearrange and manipulate formulae and equations in different formats.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  Hints:  Remember what the opposites are for different operations - including powers and roots.  Focus on the letter that needs to be made the subject - all other numbers and letters should be treated as constants.  Remember BIDMAS - order of undoing is important.  A question your teacher would have asked you at the end of this lesson is:  Which is the correct rearrangement to make m the subject: h = (fg - √m)²  A) m = h - (fg)²  B) m = (fg - √h)² |
| 5 | In this lesson you will learn how to substitute values into expressions and formulae. | Description of resource:  View video 20 on <https://corbettmaths.com/contents/>  Worksheet exercise:  Workout questions: 3 and 4  Apply questions: 1, 3, 5  Location:  HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 9\ Lessons 26-30\Set 1  File Name:  substitution | | Description of what you need to do (step by step):  Watch the video - shows how to substitute and evaluate expressions.  Answer the given questions - show full method to help with flow of your answer.  Self-mark your work - reflect and correct where possible.  Hints:  Make sure you write down each step - short cutting may mean you make silly mistakes.  Remember rules of signs (including what happens to a sign if you square or cube it).  Remember BIDMAS.  You will need to recall the work on solving simple equations when answering apply questions.  A question your teacher would have asked you at the end of this lesson is:  Evaluate the following given that m = -3  A) m³  B) -m² |
| **Need help?**  HomeAccess+ [https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap](about:blank) (use your normal school username and password).  Pupil and parent help page: [https://www.waseleyhills.worcs.sch.uk/coronavirus-independent-learning/help-for-parents-and-pupils](about:blank) | | | **How will we assess you learning?**  Exit ticket task on SMHWK after each two weeks of lessons. | |