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

Monday July 6th to Friday July 15th

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

|  |  |  |
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| Group  | Teacher | Support contact details  |
| [Set 1](#Set1) | Dr Parsons | sparsons@Waseleyhills.worcs.sch.uk |
| Clicking Images, Stock Photos & Vectors | Shutterstock[Set 2](#Set2) | Mr Watkins | h2watkins@Waseleyhills.worcs.sch.uk |
| [Set 3](#Set3) | Miss Davies | cdavies@Waseleyhills.worcs.sch.uk |
| [Set 4](#Set4) | Miss Purewal | spurewal@Waseleyhills.worcs.sch.uk |
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|  |  | ???????@Waseleyhills.worcs.sch.uk |



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 | 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: 10 Topic/theme:

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| **Lesson**  | **Aim:**What you need to take from this lesson  | **Resource(s) to use:**Hyperlinks to videos etcHomeAccess+ file location | **Suggested task:** |
| 1 | In this lesson you will learn how to find the area of a parallelogram | Description of resources:View video 44 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1,2,3,4 and 5Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 5 Mr DesaiFile Name:Area of a parallelogram | 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 area of a parallelogram of length 7 cm and height 4cm? |
| 2 | In this lesson you will learn how to find the area of a trapezium | Description of resources:View video 48 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1,2,3 and 4Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 5 Mr DesaiFile Name:Area of a trapezium | 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 area of a trapezium of parallel sides of lengths 6cm and 8cm and a height of 5cm? |
| 3 | In this lesson you will learn how to find the area of a triangle | Description of resources:View video 49 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1,2,3,4 and 5Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 5 Mr Desai File Name:Area of a triangle | 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 area of a triangle of base 7cm and height 5cm? |
| 4 | In this lesson you will learn how to find the perimeter of a shape. | Description of resources:View video 241 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1, 2,3,4 and 5Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 5 Mr Desai File Name:Perimeter | 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 perimeter of a square of sides 6.5cm? |
| 5 | In this lesson you will learn how to find the perimeter of a shape on a 1cm square grid | Description of resources:View video 242 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1.Apply questions 1,2 and 3Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 5 Mr Desai File Name:Perimeter on a grid | 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: Draw a shape on a 1cm square grid with a perimeter of 13cm? |
| **Need help?**HomeAccess+ https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap (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 | **How will we assess you learning?**Exit ticket task on SMHWK after each two weeks of lessons. |

SET 4 Year: 10 Topic/theme:

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| **Lesson**  | **Aim:**What you need to take from this lesson  | **Resource(s) to use:**Hyperlinks to videos etcHomeAccess+ file location | **Suggested task:** |
| 1 | **In this lesson you will learn…**How to draw graphs horizontal and vertical graphs in the x,y axis | **Description of resource:** Worksheet on Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31-35/Set 4/lesson 1 and 2Video links https://corbettmaths.com/2013/05/29/y-equals-graphs/https://corbettmaths.com/2013/05/29/x-equals-graphs/WorksheetLesson 1 and 2 –Drawing Horizontal and Vertical Straight Line Graphs | **Description of what you need to do (step by step):*** Watch the 2 videos for drawing horizontal line graphs
* Print off and complete the worksheet provided.
* Check your answers with the answers provided.

**Questions your teacher would have asked you at the end of this lesson is:** What do you notice about the co-ordinates on a horizontal line? What do they have in common? What do you notice about the co-ordinates on a vertical line? What do they have in common?What can you say about the steepness of horizontal and vertical lines?What is another name for the x axis and y -axis? |
| 2 | **In this lesson you will learn…**How to draw graphs horizontal and vertical graphs in the x,y axis | **Description of resource:** Worksheet on Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31-35/Set 4/lesson 1 and 2Video links https://corbettmaths.com/2013/05/29/y-equals-graphs/https://corbettmaths.com/2013/05/29/x-equals-graphs/WorksheetLesson 1 and 2 –Drawing Horizontal and Vertical Straight Line Graphs | **Description of what you need to do (step by step):*** Watch the 2 videos for drawing horizontal line graphs
* Print off and complete the worksheet provided.
* Check your answers with the answers provided.

**Questions your teacher would have asked you at the end of this lesson is:** What do you notice about the co-ordinates on a horizontal line? What do they have in common? What do you notice about the co-ordinates on a vertical line? What do they have in common?What can you say about the steepness of horizontal and vertical lines?What is another name for the x axis and y -axis? |
| 3 | **In this lesson you will learn…**How to draw linear graphs in the xy axis. | **Description of resource:** Worksheet on Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31 -35/Set 4/lesson 3Video linkhttps://corbettmaths.com/2012/12/23/drawing-graphs-using-xy-tables/ WorksheetLesson 3 – Drawing Linear Graphs | **Description of what you need to do (step by step):*** Watch the video for drawing linear graphs
* Please print off and complete the worksheet provided.
* Check your answers with the answers provided.

**A question your teacher would have asked you at the end of this lesson is:** What is the name given to the point (0,0)?-What do you notice about the name of the straight- line graph and where it cuts the y axis? What is this point called?What do you notice about the name of the straight- line graph and how steep it is? What is this steepness called? |
| 4 | **In this lesson you will learn…**How to draw quadratic graphs. | **Description of resource:** Worksheet on Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31 -35/Set 4/Lesson 4Video linkhttps://corbettmaths.com/2013/06/23/drawing-quadratics/WorksheetLesson 2 – Drawing Quadratics | **Description of what you need to do (step by step):** - Watch the video showing you how to draw quadratic graphs- Please print off and attempt the worksheet provided. - Check your answers with the answers provided.**A question your teacher would have asked you at the end of this lesson is:** What is the name of the U- shaped curve produced by a quadratic?  |
| 5 | **In this lesson you will learn…**How to solve quadratic equations using quadratic graphs | **Description of resource:** Worksheet on Location: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31 -35/Set 4/Lesson 5Video linkhttps://corbettmaths.com/2017/12/13/solving-quadratics-graphically/WorksheetLesson 5 – Solving Quadratics Graphically | **Description of what you need to do (step by step):*** Watch the video for solving quadratics graphically
* Please print off and complete the worksheet provided.
* Check your answers with the answers provided.

**A question your teacher would have asked you at the end of this lesson is:**  Does the answer/root to a quadratic equation always have to be a whole number? How can I check that the answer from the graph is the correct answer? |
| **Need help?**HomeAccess+ https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap (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 | **How will we assess you learning?**Exit ticket task on SMHWK after each two weeks oflessons. |

SET 3 Year: 10 Topic/theme:

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| **Lesson**  | **Aim:**What you need to take from this lesson  | **Resource(s) to use:**Hyperlinks to videos etcHomeAccess+ file location | **Suggested task:** |
| 1 | In this lesson you will learn how to use the difference between two parts of a ratio to work backwards in a ratio. | Description of resource:View video 271b on <https://corbettmaths.com/contents/>Worksheet exerciseAll questionsLocation:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10\Lessons 31-35\Set 3 Miss Davies File Name: Ratio difference between | Description of what you need to do (step by step):Watch the video - shows how to structure the method including use of bar modelling diagrams.Answer the given questions - show full method to help with flow of your answer.Self-mark your work - reflect and correct where possible.Hints:Draw a bar model diagram to help you visualise - we have used these in class.Label parts of your calculation (including parts of the ratio) as you do your calculations.Read the questions carefully - are you answering what they need.A question your teacher would have asked you at the end of this lesson is:What is useful about using a bar model diagram when solving the problems for the difference between values in a ratio? |
| 2 | In this lesson you will learn how to use the process of sharing an amount into a given ratio. | Description of resource:View video 270 on <https://corbettmaths.com/contents/>Worksheet exerciseWorkout questions: 1, 2 and 4Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10\Lessons 31-35\Set 3 Miss Davies File Name: Ratio sharing the total | Description of what you need to do (step by step):Watch the video - shows how to share a quantity into a ratio with either 2 or 3 parts to the ratio.Answer the given questions - show full method to help with flow of your answer.Self-mark your work - reflect and correct where possible.Hints:Use a Bar Model diagram if you feel it is useful.Make sure you label your method - explain what your calculation means.Remember appropriate representation of your answers depending on the units of measure - money, length, weight, time etc.A question your teacher would have asked you at the end of this lesson is:What is the first step to answer the following question?Share 872 m into the ratio 4 : 5 : 3 |
| 3 | In this lesson you will learn how to share a quantity into a ratio with 3 parts. | Description of resource:View video 270 on<https://corbettmaths.com/contents/>Worksheet exerciseWorkout questions: 3 and 5Apply questions: 2, 3 and 4Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10\Lessons 31-35\Set 3 Miss Davies File Name: Ratio sharing the total | Description of what you need to do (step by step):Watch the video - shows how to share a quantity into a ratio with either 2 or 3 parts to the ratio.Answer the given questions - show full method to help with flow of your answer.Self-mark your work - reflect and correct where possible.Hints:Follow the hints for lesson 2.Take care if you need to round values - rounding recurring decimals will effect the final answer.A question your teacher would have asked you at the end of this lesson is:Write your own 5 steps To Do instructions to share a quantity into a ratio.See if your instructions work to share £1250 into the ratio 5: 13 |
| 4 | In this lesson you will learn how to use sharing a quantity into a ratio to solve problems | Description of resource:View video 270 on <https://corbettmaths.com/contents/>Worksheet exerciseApply questions: 5, 6, 7, 8, 9, 10, 11 and 12Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10\Lessons 31-35\Set 3 Miss Davies File Name: Ratio sharing the total  | Description of what you need to do (step by step):Watch the video - shows how to share a quantity into a ratio with either 2 or 3 parts to the ratio.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 may need to revisit videos and work from Week 11 and 12 - expressing a ratio as a fraction or percentage.If you feel using Bar Model diagrams help then use them.Carefully explain and label your method so you don't confuse yourself as you answer.Check that you have actually answered the question that is asked of you.A question your teacher would have asked you at the end of this lesson is:To make orange paint, red and yellow paint is mixed in the ratio of 5 : 4.The mix is needed to make 1.8L of orange paint.John has 0.8 L of red and 1.2 L of yellow. Can he make the orange paint needed? |
| 5 | In this lesson you will learn how to use equivalence between two separate ratios to solve problems. | Description of resource:View video 271a on <https://corbettmaths.com/contents/>Worksheet exerciseWorkout questions: All questionsApply questions: 1, 2 and 4Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10\Lessons 31-35\Set 3 Miss Davies File Name: Ratio two ratios | Description of what you need to do (step by step):Watch the video - shows how to set out the answers in a clear and structured way, involves finding common parts within two separate ratios.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 set out your method nice and clear - explain, reason and label as you go along.You may need to look back on how to turn fractions into percentages or find fractions within a ratio.A question your teacher would have asked you at the end of this lesson is:What is the first step for the following to write the ratio Cars : Vans : Lorries?Cars : Vans = 2 : 7Vans : Lorries = 3 : 4 |
| **Need help?**HomeAccess+ https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap (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 | **How will we assess you learning?**Exit ticket task on SMHWK after each two weeks oflessons. |

SET 2 Year: 10 Topic/theme:

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| **Lesson**  | **Aim:**What you need to take from this lesson  | **Resource(s) to use:**Hyperlinks to videos etcHomeAccess+ file location | **Suggested task:** |
| 1 | In this lesson you will learn how to show the probability of an event occurring on a probability scale | Description of resources:View video 251 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1,2,3,4 and 5Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 2 Mr WatkinsFile Name:probability scale | 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: Why does a probability scale go from 0 to 1? |
| 2 | In this lesson you will learn how to list all the possible outcomes of an event occurring | Description of resources:View video 253 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1 ,2 ,3,4 and 5Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 2 Mr Watkins File Name:listing outcomes | 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: Write down possible outcomes when you roll a pair of dice? |
| 3 | In this lesson you will learn how to solve proportion problems using the unitary method | Description of resources:View video 255a onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1,2,3,4,5,6, and 7Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 2 Mr Watkins File Name:unitary method | 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: If 3pints of milk cost £2.70 what would 5 pints cost? |
| 4 | In this lesson you will learn how to solveproportional problems based around recipes | Description of resources:View video 256 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1, 2 and 3Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 2 Mr Watkins File Name:recipes | 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: To make 3 scones it needs 5 eggs, how many eggs are needed to make 5 scones? |
| 5 | In this lesson you will learning how to find the missing length of a right - angled triangle | Description of resources:View video 257, 260 and 261 onhttps://corbettmaths.com/contents/Worksheet exercise:Workout questions 1,2,3 and 4Location:HomeAccess+ \coursework drive(S)\maths\School Closure Work\Year 10 \Lessons 31-35\Set 2 Mr Watkins File Name:Pythagoras | 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: Describe the method in words you would use to find the longest side of a right angled triangle |
| **Need help?**HomeAccess+ https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap (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 | **How will we assess you learning?**Exit ticket task on SMHWK after each two weeks oflessons. |

SET 1 Year: 10 Topic/theme:

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| **Lesson**  | **Aim:**What you need to take from this lesson  | **Resource(s) to use:**Hyperlinks to videos etcHomeAccess+ file location | **Suggested task:** |
| 1 | In this lesson you will learn about the surface area of a cuboid | Description of resource: Worksheet on surface area of a cuboidLocation: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31 -35/Set 1/surface-area-cuboids-pdf Video link<https://corbettmaths.com/2013/03/29/surface-area-of-a-cuboid/>  | Description of what you need to do (step by step):1. Watch the video
2. Answer the following questions

Q1 (a,b)Q2 (a,b,)Q3 Q4 Apply section Q1, Q2, Q3, Q4, Q5 (a,c)A question your teacher would have asked you at the end of this lesson is:A cuboid has a volume of 400cm3 and a height of 4 cm. Find the surface area of the cuboid |
| 2 | In this lesson you will learn about the surface area of a cylinder | Description of resource: Worksheet on surface area of a cylinderLocation: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31 -35/Set 1/surface-area-of-a-cylinder-pdf1Video link<https://corbettmaths.com/2013/04/04/surface-area-of-a-cylinder/> | Description of what you need to do (step by step):1. Watch the video
2. Answer the following questions

Q1 (a,b,c)Q2 (a,b)Q3 (a,b)A question your teacher would have asked you at the end of this lesson is:Cylinder A has a height of 4cm and a radius of 5cm. Cylinder B has a height of 5cm and a radius of 4cm. What is the difference in the surface areas of these cylinders? |
| 3 | In this lesson you will learn about the surface area of a cylinder | Description of resource: Worksheet on surface area of a cylinderLocation: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31 -35/Set 1/surface-area-of-a-cylinder-pdf1Video link<https://corbettmaths.com/2013/04/04/surface-area-of-a-cylinder/> | Description of what you need to do (step by step):1. Watch the video
2. Answer the following questions

Q4 (a,b)Q5(a,b)Apply section Q1, Q6A question your teacher would have asked you at the end of this lesson is:Find in terms of pi, the surface area of a cylinder of height 8cm and diameter 6cm |
| 4 | In this lesson you will learn about the surface area of a cone | Description of resource: Worksheet on surface area of a coneLocation: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31 -35/Set 1/surface-area-of-a-cone-pdfVideo link<https://corbettmaths.com/2013/10/24/surface-area-of-cone/> | Description of what you need to do (step by step):1. Watch the video
2. Answer the following questions

Q1 (a,b)Q2(a,b)Q3(a,b)A question your teacher would have asked you at the end of this lesson is:Find the surface are in terms of pi for a cylinder of height 12cm, slope length 15cm and radius 9cm. |
| 5 | In this lesson you will learn about the surface area of a cone | Description of resource: Worksheet on surface area of a coneLocation: HomeAccess+/Coursework drive S/ Maths/School Closure work/Year 10/Lessons 31 -35/Set 1/surface-area-of-a-cone-pdfVideo link<https://corbettmaths.com/2013/10/24/surface-area-of-cone/> | Description of what you need to do (step by step):1. Watch the video
2. Answer the following questions

Q4 (a,b)Q5 (a,b)Q6 (a)Q7(a)A question your teacher would have asked you at the end of this lesson is:Q3 of the apply section at the end of the worksheet |
| **Need help?**HomeAccess+ https://facility.waseley.networcs.net/HAP/login.aspx?ReturnUrl=%2fhap (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 | **How will we assess you learning?**Exit ticket task on SMHWK after each two weeks of lessons. |