



# 7B1 / 7B2 / 7H1

## Subject Task Challenge Grids













The expectation is that you attempt 50 points worth of tasks per week for Maths, English and Science and 30 points per week for all your other subjects. If there are any issues with completing any of your work, your teachers will be available via email at the same time as your normal lesson. Please keep a digital and or paper copy of all of your work ready for submission.

We also recommend that you continue reading independently.



# Subject Learning Grid Challenge: English

Whilst you are working from home, try and complete AS MANY of these as possible. Fill in the boxes in a colour as you do them.

<p>Mind map this image. Write down 10 things that it makes you think about or feel. Try to use your inference skills.</p>  <p>10 POINTS</p>	<p>Research Shakespeare and create a fact file poster about him. You could include pictures and facts, as well as a list of plays he wrote and words he invented. You could start here: <a href="https://www.bbc.co.uk/bitesize/topics/z7d7gwx/articles/zrxwy9q">https://www.bbc.co.uk/bitesize/topics/z7d7gwx/articles/zrxwy9q</a></p> <p>20 POINTS</p>	<p>Imagine you had the power to create and run your own school. Create the following resources to explain how it would work:  <b>A design/map of the school building.</b>  <b>A timetable for a Y7 student.</b>  <b>A list of 10 school rules.</b>  <b>A letter to parents outlining your vision for the school.</b></p> <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Write a short story involving secrets and lies.</p>  <p>20 POINTS</p>	<p>Choose 10 interesting words or words you didn't know from a dictionary at random or ask a family member to do this for you. Then write a letter to your form tutor using all 10 words. It has to make sense!</p> <p>20 POINTS</p>	<p>Rewrite this passage using correct punctuation:  Richard III is a play by Shakespeare it is about the rise to power of King Richard III in the play he is a cruel and paranoid man who becomes a tyrant</p> <p>10 POINTS</p>	<p>Interview a family member about their experience of lock down. Plan 10 questions for them before you start. Write up the interview as if it would appear in a magazine. You could even include a picture of them!</p> <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Write a description of this character using this image as inspiration.</p>  <p>20 POINTS</p>
<p>Who is our current monarch? List 5 powers or duties she performs as part of her role.</p> <p>10 POINTS</p>	<p><b>200 Word Challenge:</b> Write the opening of a story about someone who is duplicitous and not who they seem to be.</p>  <p>20 POINTS</p>	<p>Read a book of your choice for 30 minutes.</p> <p>20 POINTS</p>	<p>Go to the website below and read about Richard III. Write down 20 interesting facts about him that you read about.  <a href="https://www.livescience.com/38935-king-richard-iii-facts.html">https://www.livescience.com/38935-king-richard-iii-facts.html</a></p> <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Write a soliloquy in which you are Shakespeare explaining how and why you are struggling to finish your latest play.</p>  <p>20 POINTS</p>	<p>Write an Acrostic poem for the slogan: Stay Alert.</p> <p>S T A Y A L E R T</p> <p>10 POINTS</p>	<p><b>200 Word Challenge:</b> Write the opening of a story about someone who has ultimate power.</p>  <p>20 POINTS</p>	<p>Make a word search in which you hide at least 10 words all associated with lock down. Ask a family member to complete this for you once it is finished! Example words could include:  <b>Distance</b>  <b>Boredom</b>  <b>Rainbow</b>  <b>Hope</b></p> <p>20 POINTS</p>
<p>Write a paragraph about being in lock down WITHOUT punctuation or capital letters! Ask a family member to correct it for you and see if they spot all the errors!</p> <p>10 POINTS</p>	<p>Look up these punctuation marks and write a definition of how to use them in your own words. Then write a sentence for each using the punctuation correctly.  <b>Comma</b>  <b>Semi Colon</b>  <b>Brackets</b>  <b>Ellipsis</b></p> <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Write short story about a villainous character.</p>  <p>20 POINTS</p>	<p>If we were King or Queen for a day, what rules would you impose for your citizens. Make a decree with a list of 10 rules or laws you would put in place. Explain why you have chosen each one.</p> <p>20 POINTS</p>	<p>Read a book of your choice for 30 minutes and then do the following: list 20 <i>interesting</i> words from the section you read. Write a letter to a main character including all 20 words. Make sure it makes sense!</p> <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Imagine you have been imprisoned in the Tower of London. Write your diary entries for this experience.</p>  <p>10 POINTS</p>	<p>Look up these words and write a definition in your own words. Then write a sentence for each using the word correctly.  <b>Regicide</b>  <b>Machiavellian</b>  <b>Tyrant</b>  <b>Duplicitous</b></p> <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Write a description inspired by this image. Consider the character's thoughts and feelings.</p>  <p>20 POINTS</p>
<p>Make a mind map for all the ideas and words you associate with the word POWER</p> <p>10 POINTS</p>	<p>Write a description of a forest (or a city) with each sentence starting with a letter from the alphabet. EG: <b>A</b> carpet of green covered the ground. <b>B</b>roken twigs snapped underfoot. <b>C</b>arefully, I made my way through...  <b>ABCDEFGHIJKLMNOPS</b>  <b>TUVWXYZ</b></p> <p>20 POINTS</p>	<p>Read about the Ravens at the Tower of London and create a poster about them from what you have learned.  <a href="https://www.hrp.org.uk/tower-of-london/whats-on/the-ravens/#gs.5qxdtb">https://www.hrp.org.uk/tower-of-london/whats-on/the-ravens/#gs.5qxdtb</a></p> <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Write the ending of a story about good overcoming evil.</p>  <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Imagine you are a Raven at the Tower of London. Write about what you have seen over the years.</p>  <p>20 POINTS</p>	<p>Write down 3 wishes you have for your next year at school.</p> <p>10 POINTS</p>	<p>Go to the World Book Day website and read 2 – 5 extracts. After reading each one, write a review of it, giving your personal opinion of the extract and a star rating out of 5.  <a href="https://www.worldbookday.com/resources/secondary/?type=extracts&amp;character=&amp;book_author=&amp;illustrator=">https://www.worldbookday.com/resources/secondary/?type=extracts&amp;character=&amp;book_author=&amp;illustrator=</a></p> <p>20 POINTS</p>	<p><b>200 Word Challenge:</b> Write a description based on the theme of MANIPULATION.</p>  <p>20 POINTS</p>













## Subject Learning Grid Challenge: Maths

Whilst you are working from home, try and complete AS MANY of these as possible. Fill in the boxes in a colour as you do them.

<p>Write down the first 20 prime numbers.</p> <p><b>20 POINTS</b></p>	<p>How many different rectangles can you draw with an area of 24 cm<sup>2</sup>?</p> <p><b>10 POINTS</b></p>	<p>Practise your times tables. Print out <a href="#">times tables grids</a>. Compete against a parent.</p> <p><b>10 POINTS</b></p>	<p>Explore measures by cooking and baking and using different scales.</p> <p><b>20 POINTS</b></p>	<p><b>Challenge</b></p> <p>Investigate the game of pentominoes.</p> <p><b>10 POINTS</b></p>	<p>Design a revision resource for the different types of number and their properties.</p> <p><b>10 POINTS</b></p>	<p>Go on a shape hunt and find all of the 2D and 3D shapes. Name their edges and vertices.</p> <p><b>20 POINTS</b></p>
<p>Make number families using + and – and =. You can draw part whole models!</p> <p><b>10 POINTS</b></p>	<p>Take picture or write down anything you do that involves using your maths skills.</p> <p><b>20 POINTS</b></p>	<p>Investigate and write a revision card on how to find the area of a square, rectangle and triangles. This should also include examples.</p> <p><b>10 POINTS</b></p>	<p><b>Challenge</b></p> <p>Complete a tangram challenge.</p> <p><b>10 POINTS</b></p>	<p>Millie and Ryan play a number game.</p> <p><b>What's my number?</b></p> <p>Is it under 20? Yes Is it a multiple of 3? Yes Is it a multiple of 5? Yes</p> <p><b>What is the number?</b></p> <p><b>20 POINTS</b></p>	<p>Using the digits 1 to 9 exactly once in each calculation, fill the boxes to make a total as close to 1000 as possible</p> <p></p> <p><b>20 POINTS</b></p>	<p>Here are some signs.</p> <p></p> <p>Write a sign in each box to make this correct.</p> <p>20 <input type="text"/> 4 <input type="text"/> 5</p> <p><b>20 POINTS</b></p>
<p>Write two additions and two subtractions represented by the part-whole model.</p> <p></p> <p><input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/></p> <p><b>Challenge!</b></p> <p><b>20 POINTS</b></p>	<p><b>Challenge</b></p> <p>Research the artist Escher and how he tessellated shapes? Which other artists use geometric shapes?</p> <p><b>10 POINTS</b></p>	<p>A teacher drives 18 miles to school. How far does he travel in a 7 week half term?</p> <p><b>20 POINTS</b></p>	<p>Write a revision card on how to find the area of a trapezium and a parallelogram. This should also include examples.</p> <p><b>10 POINTS</b></p>	<p>Create a tessellating pattern with quadrilaterals. Do all quadrilaterals tessellate?</p> <p><b>10 POINTS</b></p>	<p>1128 people eat school dinners. On average, each pupil is given 39 chips. How many chips do the dinner ladies need to cook?</p> <p><b>20 POINTS</b></p>	<p>Revise any GCSE topics by using the revision videos and worksheets found on: <a href="https://corbettmaths.com/">https://corbettmaths.com/</a></p> <p><b>20 POINTS</b></p>
<p>Write two additions and two subtractions represented by the part-whole model.</p> <p></p> <p><input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> + <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/> <input type="text"/> - <input type="text"/> = <input type="text"/></p> <p><b>20 POINTS</b></p>	<p><b>Challenge</b></p> <p>Use your compass to complete a rose pictures.</p> <p><b>10 POINTS</b></p>	<p>Write down the difference between congruency and similarity</p> <p><b>10 POINTS</b></p>	<p>Write the fact families for these bar models.</p> <p>a) </p> <p><b>20 POINTS</b></p>	<p><b>Challenge</b></p> <p>Complete an Nrich challenge task <a href="https://nrich.maths.org/">https://nrich.maths.org/</a></p> <p>There are lots to try!</p> <p><b>20 POINTS</b></p>	<p>Write a 10 question test for the people in your household based on what you have learnt. Give them a time limit to complete it. Mark and give feedback</p> <p><b>20 POINTS</b></p>	<p>Write a maths dictionary with 20 words related to topics covered this half term.</p> <p><b>20 POINTS</b></p>

## Subject Learning Grid Challenge: Science

Whilst you are working from home, try and complete AS MANY of these as possible. Fill in the boxes in a colour as you do them.

Biology			Chemistry			Physics		
Draw and label a plant and an animal cell.  <b>10 POINTS</b>	Describe the differences between a plant and an animal cell.  <b>20 POINTS</b>	Write 10 quiz questions about plant and animal cells. Maybe try them out on a friend and see how many they get correct.  <b>20 POINTS</b>	How many mixtures can you find in your house?  <b>10 POINTS</b>	Experiment: (With the supervision of your parent or carer) make a cup of saltwater where the salt is completely dissolved. Now using only what you have in your kitchen get the salt  <b>20 POINTS</b>	Make a leaflet to explain how bee and wasp stings can be treated  Include key words acid and alkali  <b>20 POINTS</b>	What happens to a sound if its amplitude increases?  <b>10 POINTS</b>	Describe how the human ear allows us to hear sounds.  <b>20 POINTS</b>	Can you make 3d models of transverse and longitudinal waves? Explain what they are, the differences between them and give examples of each type.  <b>20 POINTS</b>
Draw and label a sperm cell  <b>10 POINTS</b>	Write a step by step instruction guide for a year 6 student on how to use a microscope.  <b>20 POINTS</b>	Describe what happens during fertilisation.  <b>20 POINTS</b>	What is a control variable?  <b>10 POINTS</b>	Experiment: Design an experiment to see who in your household can stand on one leg the longest. What control variables will you use?  <b>20 POINTS</b>	Make a lab safety poster to be displayed in classrooms ready for next year's new year 7's  What lab rules can you remember?  <b>20 POINTS</b>	Watch this video, write down at least one important point. <a href="https://www.bbc.co.uk/bitesize/topics/zw982hv/articles/z8mmb82">https://www.bbc.co.uk/bitesize/topics/zw982hv/articles/z8mmb82</a>  <b>10 POINTS</b>	What is the decibel scale? Can you find some examples of different sounds? What is a dangerous level and how can you avoid it?  <b>20 POINTS</b>	The mosquito was a device used to stop young people from visiting places. <a href="https://www.bbc.co.uk/news/uk-politics-16273076">https://www.bbc.co.uk/news/uk-politics-16273076</a> Why did it only affect young people? Do you think they should be allowed? Why?  <b>20 POINTS</b>
Explain why washing our hands regularly is so important.  <b>10 POINTS</b>	Design a leaflet for a doctor's surgery which explains how a baby develops through pregnancy.  <b>20 POINTS</b>	Imagine you are asked to talk to some year 6 students about periods. What questions do you think they might ask? How would you answer these, so they understand and don't  <b>20 POINTS</b>	What is an independent variable?  <b>10 POINTS</b>	Experiment: Follow a method from a cook book or online to create something. Take a photo of what you made. Evaluate the method, was it easy to follow? Could it have been  <b>20 POINTS</b>	Write a paragraph to explain what is happening when water boils in a kettle or pan  <b>20 POINTS</b>	What does frequency mean? How do you know if the frequency of a sound has increased?  <b>10 POINTS</b>	Choose a musical instrument (e.g. guitar) and describe how it produces sound and how to change the pitch of its sound.  <b>20 POINTS</b>	Can you have a conversation underwater? Explain.  <b>20 POINTS</b>
What is a balanced diet? Design a healthy menu for MacDonald's  <b>10 POINTS</b>	Describe why we need each food groups e.g. proteins, carbohydrates, fats, vitamins, minerals  <b>20 POINTS</b>	Look at some food labels around your house and write down 5 things which are healthy to eat. Explain why you have picked these foods.  <b>20 POINTS</b>	What is a dependant variable?  <b>10 POINTS</b>	Experiment: How many hazard labels can you find in your house? Make a poster for each symbol to inform your family what each symbol means  <b>20 POINTS</b>	What is diffusion? Design an experiment to show your family what diffusion is  Hint – squash in a glass of water  <b>20 POINTS</b>	What is echolocation? Give an example of an animal that uses it.  <b>10 POINTS</b>	Describe an experiment that you could do to measure the speed of sound. You might need to include a calculation.  <b>20 POINTS</b>	Record a video of you playing a song with water glasses? You need to include an explanation on why the glasses make different sounds. (Ask for permission before completing this task)  <b>20 POINTS</b>