The following work has been provided for you if you are self-isolating during the first Autumn term. You should complete the activities below. We do not expect you to submit the work and you shouldn’t work for more than 4 hours a day. You may wish to follow your timetable to guide you.

**English**

Read a book for 30 minutes.  After you have finished reading, write a paragraph summarising what you have read.

Use this link from Seneca to learn about **VICTORIAN LONDON AND CHARLES DICKENS**
<https://app.senecalearning.com/classroom/course/ddff7b40-4794-11e8-840f-39fdc9615de8/section/bb0d4b70-4795-11e8-840f-39fdc9615de8/session>

**Maths**

Your work will be set on Maths Watch within 24 hours of your phone call. Please log into Maths Watch and contact Miss Hopper if you have any problems -Catherine.hopper@westbourne.attrust.org.uk

**Science**

**ATOMIC STRUCTURE AND PERIODIC TABLE**

There are four video lessons for you to watch and complete all the tasks.

Lesson 1: Atoms elements and compounds. <https://classroom.thenational.academy/lessons/atoms-elements-and-compounds-6cv3ge>

Lesson 2 Electronic configuration and the Periodic Table. <https://classroom.thenational.academy/lessons/electron-configuration-and-the-periodic-table-61jp4c>

Lesson 3: Group 1 alkali metals. <https://classroom.thenational.academy/lessons/group-1-cdk68r>

Lesson 4: Group 7 Halogens. <https://classroom.thenational.academy/lessons/group-7-c5h36c>

**CELLS**

There are three video lessons for you to watch and complete all the tasks.

Lesson 1: Prokaryotes and Eukaryote cells. <https://classroom.thenational.academy/lessons/prokaryotic-and-eukaryotic-cells-6cr6ae>

Lesson 2 Osmosis and diffusion. <https://classroom.thenational.academy/lessons/diffusion-61jker>

<https://classroom.thenational.academy/lessons/osmosis-6wu3jd>

Lesson 3: Active transport. <https://classroom.thenational.academy/lessons/active-transport-6mtk2r>

**ENERGY**

There are four video lessons for you to watch and complete all the tasks.

Lesson 1: Kinetic energy. <https://classroom.thenational.academy/lessons/the-kinetic-energy-store-6thpad>

Lesson 2: Potential energy. <https://classroom.thenational.academy/lessons/the-gravitational-potential-store-crr6ar>

Lesson 3: Specific heat capacity. <https://classroom.thenational.academy/lessons/specific-heat-capacity-chhp6r>

Lesson 4: Renewable energy. <https://classroom.thenational.academy/lessons/renewable-energy-resources-ccu6cr>

**Electricity**

Lesson 1: Circuits. <https://classroom.thenational.academy/lessons/circuits-65hk6d>

lesson 2: Calculating current. <https://classroom.thenational.academy/lessons/charge-and-current-64r36t>

Lesson 3: Series and Parallel circuits. <https://classroom.thenational.academy/lessons/current-and-series-circuits-68r6ad>

<https://classroom.thenational.academy/lessons/current-and-parallel-circuits-74rk8d>

Lesson 4: Resistance <https://classroom.thenational.academy/lessons/resistance-c8u3ed>

Lesson 5: How does length of a wire effect Resistance. <https://www.youtube.com/watch?v=m_3JrA-sDEg>

Lesson 6: Plugs. <https://www.bbc.co.uk/bitesize/guides/zwwnb9q/revision/2>

**Organisation**

Lesson 1: Cells and Tissues

Lesson 2: Digestive system

<https://classroom.thenational.academy/lessons/food-tests-61h3cd>

<https://classroom.thenational.academy/lessons/digestion-cnk66c>

Lesson 3: Enzymes

<https://classroom.thenational.academy/lessons/digestive-enzymes-6dgkgr>

<https://classroom.thenational.academy/lessons/investigating-enzymes-60w64t>

<https://classroom.thenational.academy/lessons/ph-and-enzymes-part-1-cru3jt>

<https://classroom.thenational.academy/lessons/ph-and-enzymes-part-2-75h3gr>

Lesson 4: Heart

<https://classroom.thenational.academy/lessons/the-heart-6ct3jd>

<https://classroom.thenational.academy/lessons/heart-rate-6cr32r>

<https://classroom.thenational.academy/lessons/heart-disease-61k68d>

Lesson 5: Lungs

<https://classroom.thenational.academy/lessons/the-lungs-ccu3ge>

Lesson 6: Blood

<https://classroom.thenational.academy/lessons/blood-and-blood-vessels-c8t62c>

Lesson 7: Leaves

Lesson 8: Osmosis and Diffusion

<https://classroom.thenational.academy/lessons/diffusion-part-1-6hh3ac>

<https://classroom.thenational.academy/lessons/diffusion-part-2-70w62d>

**Structure and Bonding**

Lesson 1-3: Ionic bonding

<https://classroom.thenational.academy/lessons/ionic-bonding-introduction-70wk4c>

<https://classroom.thenational.academy/lessons/further-ionic-bonding-6cu32c>

<https://classroom.thenational.academy/lessons/properties-of-ionic-compounds-6hj66c>

Lesson 4-7: Covalent bonding

<https://classroom.thenational.academy/lessons/covalent-bonding-65hpcc>

<https://classroom.thenational.academy/lessons/simple-covalent-molecules-70v66e>

<https://classroom.thenational.academy/lessons/the-giant-covalent-structures-c5h3cc>

<https://classroom.thenational.academy/lessons/giant-covalent-structures-graphene-68rp6e>

**Geography**

**Climate Change**

Lesson 1: What is the evidence for climate change. Watch the video and complete the quiz.

[**https://classroom.thenational.academy/lessons/what-evidence-do-we-have-to-show-that-the-climate-is-changing-cmu64r**](https://classroom.thenational.academy/lessons/what-evidence-do-we-have-to-show-that-the-climate-is-changing-cmu64r)

Lesson 2: What is the greenhouse effect? Watch the video and complete the quiz.

[**https://classroom.thenational.academy/lessons/what-is-the-greenhouse-effect-chh62d**](https://classroom.thenational.academy/lessons/what-is-the-greenhouse-effect-chh62d)

Lesson 3: What are the possible impacts of climate change? Watch the video and complete the quiz.

[**https://classroom.thenational.academy/lessons/what-are-the-possible-effects-of-climate-change-cdhpcc**](https://classroom.thenational.academy/lessons/what-are-the-possible-effects-of-climate-change-cdhpcc)

**History**

**What kind of peace was made in 1919?**

Lesson 1. In this lesson you will learn about why it was so difficult for the winners of the First World War to decide how to punish Germany. You will look at their different wartime experiences, their fears and how all of this affected their aims at the Paris Peace Conference. <https://classroom.thenational.academy/lessons/why-was-it-so-difficult-to-decide-what-to-do-with-germany-after-the-first-world-war-64upcr>

Lesson 2. In this lesson you will explore the terms of the Treaty of Versailles and how Germany was punished by the winning countries of the First World War. You will start to examine what kind of peace was actually made in 1919. <https://classroom.thenational.academy/lessons/was-the-treaty-of-versailles-a-peace-of-revenge-ccukat>

Lesson 3. Through the limits of self-determination, we will find out how the plans of Woodrow Wilson (president of the USA) to have national groups rule themselves actually paved the way for further problems in Europe. We will look at how this impacted on the kind of peace that was made in 1919. <https://classroom.thenational.academy/lessons/the-limits-of-self-determination-74r3ct>

Lesson 4. The League of Nations was part of Woodrow Wilson's plan to prevent future wars in Europe. Through this lesson you will learn about the aims and the structure of the League of Nations and you will evaluate its strengths and weaknesses. <https://classroom.thenational.academy/lessons/distribution-of-major-cities-in-the-uk-75h3cc>

**Spanish**

Watch the following videos about using social media:

<https://teachers.thenational.academy/lessons/talk-about-social-media-part-13-cgw66c>

<https://teachers.thenational.academy/lessons/null-c4t38e>

<https://teachers.thenational.academy/lessons/talk-about-social-media-part-33-cnjk6d>

<https://classroom.thenational.academy/lessons/describing-people-and-possession-part-12-70tkct>

<https://classroom.thenational.academy/lessons/describing-people-and-possession-part-22-69hp8c>

**Art**

Task 1: Watch this video on how to draw buildings using two point perspective. You could have a go and follow the video: <https://www.youtube.com/watch?v=1Fcbk_K5qWA>

Task 2: Watch this video of drawing a 3D Skyscraper. You could have a go and follow the video.

<https://www.youtube.com/watch?v=PrZHNYX6mac>

**Computing**

Research ‘Searching and Sorting Algorithms’.

1. Create a guide to explain what an algorithm is and how they are used in society.
2. Create a guide to searching algorithms, focus on linear search and binary search.
3. Create a guide to sorting algorithms, focus on bubble sort and merge sort.

If you have access to a computer and finish other tasks you could try some of the challenges in the CS4FN Puzzle Book  [https://westbourneacademy.sharepoint.com/:b:/g/EaG8vY3-\_1VBgAprcSfls40BOC4gNRpA3z3hBiObm8etbg?e=R3xOYk](https://westbourneacademy.sharepoint.com/%3Ab%3A/g/EaG8vY3-_1VBgAprcSfls40BOC4gNRpA3z3hBiObm8etbg?e=R3xOYk)

**Drama**

Positions on stage:

1. Watch <http://youtu.be/TowLHF1s3sw>. Draw and label your own stage with the nine stage positions.

2. A monologue is a solo speech by and actor on stage or in a film. Write your own monologue and choose one of the following starting lines: ‘This has been the best day ever...’ **or** ‘I’m so excited about tomorrow..’

3. Video yourself performing the monologue and send it to your teacher by email.

4. Practice your key Drama word spellings.

**DT**

1.Read through the ‘revise’ section of this link on nutrition, making revision notes or flashcards.

<https://www.bbc.co.uk/bitesize/guides/zkmpwty/revision/1>

2.Complete the 10- question online quiz on the ‘test’ section of the link. Email your revision notes to your DT teachers.

**Music**

Research a music festival and create a poster/PowerPoint detailing where it is held, who started it, when did it first begin, how many people attend, who normally plays there (which artists), how much does it cost to attend and anything else you think is important.

**PE**

Read the Mo Farah article:

[https://westbourneacademy.sharepoint.com/:w:/g/EQgRxyZMhLJMsGe8Jj-IcW8BwlTs83X4TGQenrgxMtFzKA](https://westbourneacademy.sharepoint.com/%3Aw%3A/g/EQgRxyZMhLJMsGe8Jj-IcW8BwlTs83X4TGQenrgxMtFzKA)

Year 9: Open the Forms document and follow the instructions.

<https://forms.office.com/Pages/ResponsePage.aspx?id=UyUudcf3sEGK8GkwZaFwfc-AOXr0jrVIiDUN6qxcLIVUMTdHWkVCMk5KQzJROTFUTFZEQUtKUlBSNi4u>

**RS**

Click on the following link:

<https://westbourneacademy.sharepoint.com/Learning%20Resources/Forms/AllItems.aspx?FolderCTID=0x01200065D212F90F5FB441947685D3910623C9&viewid=11c4f265%2D47c5%2D459d%2D8843%2D36d01e467f6b&id=%2FLearning%20Resources%2FReligious%20Studies%2FYear%209%2FUnit%202%2D%20Prejudice>

Open the file **‘Year 9 Self-Isolation Work’**. Read the information on each slide about prejudice. Watch any video clips where there are links given. Complete the activities.