

**Year 9 Work Spalding High School**  
**Work for 20<sup>th</sup> April to 1<sup>st</sup> May**

**Art:**

**2 lessons plus HWK**

Continue with previous work set. Continue to use the PowerPoint for inspiration. Record/ experiment to develop and refine ideas. Keep researching and recording other things and keep watching artists' videos on YouTube if you can. Don't forget it's a **journey** so you can work through the stages of the process and reflect at every point in your RJ to move your work forward. Well done for all your hard work!!

**N.B. Science rotation:**

For Biology and Chemistry – ensure you have completed the first fortnight's work for both subjects and then move onto the new work in this document. Further work will be set for the third fortnight.

For Physics – a whole topic of work was set, so please make sure that everything is complete by the end of the third fortnight.

**Biology:**

**Topic 4 Non-communicable diseases part 2**

Two classes have already completed Activity 1 below and should move onto Activity 2. All other classes should start with Activity 1.

**Activity 1: The correlation between body mass and type 2 diabetes.**

- Research and write a short paragraph on each of the following:
  - The cause of type 1 diabetes and how it is controlled (treated)
  - The cause of type 2 diabetes and how it is controlled (treated)
- Work your way through the PowerPoint which will be emailed to you or you can access it via the VLE. You could print out the PowerPoint and add your answers to your printed copy, or make notes as you go through and write your answers in your book.

**Activity 2: Cardiovascular disease risk factors and treatments**

'Cardiovascular diseases are diseases affecting the heart and blood vessels e.g. coronary heart disease and strokes. Cardiovascular diseases are caused by damage to the blood vessels (arteries), a build-up of fatty deposits and an increased risk of blood clots forming.'

- Research and then complete a detailed spider diagram showing all of the risk factors for cardiovascular disease.
- Work your way through the PowerPoint which will be emailed to you or you can access it via the VLE. You could print out the PowerPoint and add your answers to your printed copy, or make notes as you go through and write your answers in your book.

Once you have finished the above tasks, complete the exam questions (on the VLE and/or email word document) and email only this to your teacher, either as a completed Word document, or as an attached scan/photograph.

If you have any problems or questions, please email your Biology teacher: [tanya.waldron@spaldinghigh.lincs.sch.uk](mailto:tanya.waldron@spaldinghigh.lincs.sch.uk) or [nicholas.wright@spaldinghigh.lincs.sch.uk](mailto:nicholas.wright@spaldinghigh.lincs.sch.uk).

## **Chemistry:**

Complete work on the Chemistry rotation you are in at the moment, which will involve completing the Periodic Table section on Transition Metals, Alloys and metallic bonding. Use Bitesize and Dr Wardell will provide some sheets on the VLE to complete the section. Use Chemistry for AQA for reference to Transition metals (page 100-103) and Metallic bonding (page 19).

In the new rotation two groups will start The periodic table (notes can be made from Bitesize) Chemistry for AQA page 88-103. Once again Dr Wardell will provide sheets to download, and complete from the school VLE, as well as videos to link to.

Can also use the Combined Science workbook to help pages 138-142 Groups in the Periodic Table, page 96 Metallic Bonding.

## **Computer Science:**

Working to solve and document each of the 3 programming challenges for the assessment. Use the time to really push yourself to solve the challenge. Use the PowerPoints and practice programs to help you. Make sure to either flowchart or pseudocode your plan for the solution. Screen shots of code and program running are needed for the assessment.

## **Design Technology:**

**There is a PowerPoint/pdf on the VLE (you had an email earlier in the year on how to access the VLE)**

1. Rendering: draw in sketch perspective a kitchen utensil. Try to render the materials. Add separate detail drawings
2. Volume production: Investigate the different volumes of production. Illustrate products that are examples of one off, batch or continuous flow production.
3. Complete the mock paper question.

## **Drama:**

### **ALL WORKSHEETS / PLAYS WILL BE EMAILED TO YOU**

1. 'Soldiers' - complete activities on the reverse of the image.
2. Read the play 'The Disappeared' and answer the questions on the student sheet.

## **English:**

### **Objective: Explore and understand the genre and language of 19<sup>th</sup> century Literature**

**Outcome:** annotated poems demonstrating understanding of the poems. Look at 'Ozymandias'. What form has Shelley chosen? Why?

1. In your own words, describe what is left of the statue.
2. Select evidence that Ozymandias was arrogant?
3. Select evidence that Ozymandias could be ruthlessly domineering.
4. Select evidence that the sculptor was very good at his job.
5. We know that Ozymandias was a proud and vain king because the inscription reads '...However, he was powerful for only a relatively short time as is evident
6. Select evidence that reinforces the idea that human life and power is transient but that time is eternal.

Find another poem in the anthology and make a thematic connection.

Create a Venn diagram to show the themes where they are the same/ different. Look at language techniques uses support with references.

### **Accelerated Reader Awards – keep reading. Additional, Reading comprehensions on VLE**

#### **Food and Nutrition:**

#### **Eatwell Guide Project**

You each have a copy of The Eatwell Guide on the front cover of your booklet.

You do not need access to the internet to do this, however if you do have access, please see The Eatwell Guide on either the NHS website OR The British Nutritional Foundation website.

- Plan a 7-day menu – 3 meals in each day- Breakfast, Lunch and Dinner. You may include snacks and drinks where appropriate.
- Base your menu around the approximate portions as indicated on the guide, e.g. 5 portions of Vegetable and fruit each day – 1portion is 80g e.g. 1 medium banana or apple
- Remember the starchy carbohydrates should be wholegrain
- Unsweetened Fruit Juice and smoothies are limited to 150ml per day.
- Give detail in your menu e.g. if you are making a cheese salad wrap with mayonnaise - is it a wholemeal wrap, what type of cheese are you using – reduced fat perhaps / reduced fat mayonnaise.
- Most people enjoy a pudding/ dessert sometimes! Include 1 and make it special but think how you can include fruit and what you might serve it with, e.g. Low fat Greek yoghurt instead of double cream.
- If you are able to conduct practical work, that is super – take a photograph and write a few reflection notes about taste, texture, aroma and appearance.

#### **French:**

You MUST check your email.

You will be emailed one PowerPoint and sound files.

You must complete the PowerPoint Chez moi

This should take you 4 hours.

Extra:

<https://quizlet.com/en-gb>

Using the search button:           studio 2 Dans mon appart

Contact: Mrs Barats: [florence.barats@spaldinghigh.lincs.sch.uk](mailto:florence.barats@spaldinghigh.lincs.sch.uk)

#### **Geography:**

#### **Global Development**

Empowering and educating girls is critical to development. Using a range of named country examples, to what extent do you agree? Your answer may be written or produced as an A4 poster, but remember you have 3 lessons a fortnight so this is plenty of time for a DETAILED piece of work!!

<https://borgenproject.org/five-easy-steps-develop-country-sustainably/>

<https://www.theloquitur.com/importance-of-education-for-girls-in-developing-countries/>

<https://www.fairtrade.org.uk/Media-Centre/Blog/2018/March/Six-ways-Fairtrade-is-empowering-women>

## German:

Chapter 4 **Die Kindheit** – all exercises to be completed in yellow book. All vocab on p92-93  
All work to be set out with date/title/page and exercise number

P74-75 match up and then write out the name and the sentences which go with it in German and also an English translation. Add 2 more famous people of your choice and write a few sentences about them.

P76 read green grammar box and then complete ex 1 as a translation, writing out the German and the English.

P77 draw up a table for ex 5 and complete it after having read 'früher und heute'. Complete ex 6 writing out the correct version of each sentence.

P77 ex7 use p76-77 to help you and write a maximum of 60 words KLO Accuracy. Please copy this into the body of your email and email your teacher your answer by Friday 1 May. Also, stick a copy of it into your yellow book and do corrections in the usual way when you get your work back.

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[dawn.bushell@spaldinghigh.lincs.sch.uk](mailto:dawn.bushell@spaldinghigh.lincs.sch.uk)

Optional <https://quizlet.com/en-gb>

Using the search button: Stimmt 3 Kapitel 4 (All the work available can be used)

Grammar: work through the grammar tasks, particularly tenses, verbs, word order from:  
<https://www.languagesonline.org.uk/Hotpotatoes/germanindex.html#Grammar>

## History:

Research the events of the following battles and explain how they helped cause Britain's victory in WW2. Consider how they changed the course of the war i.e. what was the situation before and after the battle?

- Battle of Britain
- Hitler's invasion of the USSR (Operation Barbarossa)
- Pearl Harbour
- Battle of El-Alamein
- D-Day

## Latin:

Check the VLE for exercises and worksheets. Ensure you have completed any worksheets given.

Read through the story of Fishbourne palace p68-73. Roman mosaics were very intricate and sometimes complex in design. Find an image of a Roman mosaic on the internet and print it off to stick in your book – label it clearly – Where was it found? When was it constructed? What does it show and why is this significant to the Romans?

## Extension activity:

Create your own mosaic and take a picture to email in– the winning one will be put on the school website.

[Charlotte.jones@spaldinghigh.lincs.sch.uk](mailto:Charlotte.jones@spaldinghigh.lincs.sch.uk)

## Maths:

### Topic focus: Transformations.

Complete any work set on MyMaths and Dr Frost Maths by your teacher, or use relevant pages in your CGP book. Chapter 7 in your homework book also has extra practice questions, as does [mathsgenie.co.uk](http://mathsgenie.co.uk). Remember there are online lessons on both platforms and many videos on Dr Frost that can help. If you finish, use your notebook to look back at previous topics and consolidate these. Keep practising your numeracy – there are lots of games to practise times tables and key skills.

Demonstrate that two triangles are congruent
Find the order of rotational symmetry for a 2D shape
Recognise shapes with rotational symmetry.
Translate, reflect, rotate and enlarge a 2D shape.
Combine transformations

## Music:

Using Garageband or another similar app, such as [www.bandlab.com](http://www.bandlab.com) (also very good and I can hear what you send to me through the bandlab website – can email me about it) start to compose another song or instrumental track. You might be able to use these apps to share what you do with each other and even work remotely as a band.

## Physics:

Complete parts of the work below not covered in the previous weeks' work.

**A)** Use revision guide/textbook/this [BBC Bitesize link 1](#) and [link 2](#) to research the definitions, equations and units of work done, power and efficiency.

Complete the experiments described below to **measure your work done and power**. In your books or on paper describe the 3 experiments, write down all your measurements and show full calculations.

1) **Step on and off a step 20 times**. Measure the height of the step and times by 20 to get the distance - find your weight (mass in kg x 10) for the force and time how long it took you to complete the action. Use this to calculate your work and power. If you can't find your weight use 500N.

2) **Walk upstairs**. Measure the height of one step and times by the number of steps to get the distance - find your weight (mass in kg x 10) for the force and time how long it took you to complete the action. Use this to calculate your work and power. If you can't find your weight use 500N.

3) **Lift a 1kg object 5 times**. Pick up a 1kg bag of sugar (10N) 5 times. Measure how far you lift it and times by 5 to get the height. Time how long it took you to complete the action. Use this to calculate your work and power.

**B)** 1) Follow this link [BBC bitesize energy stores](#) and make notes on stores/pathways/systems/transfer diagrams/conservation of energy - you can then complete the first part of the quiz.

2) Find 10 examples around your home and write down the energy transfers (identify the starting and end stores plus the pathways).

## RS:

Read through the Sikhism revision booklets distributed before school closed. Work your way through the booklet creating revision mind maps for each topic. Start with Sikh beliefs about God and work your way through the other topics.

Please do this at the back of your books or on paper. Make them colourful and you could also use the internet and notes in your exercise book to add to these mind maps.

If you have internet access, please watch the BBC documentary about The Golden Temple:

<https://www.bing.com/videos/search?q=you+tube+the+golden+temple+documentary&view=detail&mid=073C9C400766BA7E9379073C9C400766BA7E9379&FORM=VIRE>

<https://www.youtube.com/watch?v=Qiz2TVPN9TU>

Please create a fact file about The Golden Temple in Amritsar which should include at least 10 Key facts. This will be useful for revision.

### Spanish:

Check your emails as I will email you work to complete:

1. The imperfect tense – copy out the notes into your grammar book and complete the exercises or stick the sheet in if you are able to print it and complete the exercises. This work is for grammar book.
2. Log on to Senaca and complete the assignments on the imperfect tense
3. Write 40-90 words describing
  - what you used to look like
  - what you used to be like when you were younger
  - Extension - what you used to do / what you didn't use to do at school in lessonsEmail me your writing and I will mark it for you and send it back to you. This is your own work and not that of an internet translator.

### Textiles:

#### Design based project

**Contextual challenge:** Natural forms are a constant source of inspiration for fashion designers.

Design a garment/garments that reflect the elegance of nature.

Using the investigation tasks you have already completed (mood board, designer research, existing products) develop your ideas as below:

Produce a design brief and specification

Generating design ideas

- Early concept ideas, modified ideas based on evaluation and feedback

Developing design ideas

- Further sketching, experimental samples of techniques by hand or machine, using materials found around the home (frills, flounces, ruffles, pleats, tucks etc.)

Presentation of your final design proposal

- Final design proposal, annotation, technique samples of proposed techniques, fabric samples

Evaluation of final design and suggested modifications.

(Have fun and be creative – you can't do anything wrong!)

**Work hard and email your teacher if you need any help!**

