

## **Year 8 Homework Options Half Term 3**

### **January 29th to February 2nd - Maths, Art, Music, RE**

#### **Maths**

Above and Beyond Research Project: Fibonacci. Explore practice examples of the Fibonacci sequence in everyday life. Write a report on your findings. FIBONACCI SEQUENCE BY :ABHISHEK CHOUDHURY,ROLLNO -13 – class XI project (wordpress.com).

Option 1 Sparx Compulsory Work (this is the one hour task each student is expected to do). Option 2 Sparx XP Boost (additional optional work students can do for further stretch and challenge). Option 3 Sparx Compulsory Work/XP Boost/ Times Tables Extra (students can complete two optional tasks on top of their normal expected task).

#### **Art: Embellishments**

Above and Beyond: Complete hand embroidery at home using a variety of stitching techniques.

Option 1 Create a colour theory booklet using images, drawings and words. You must include facts about colour mixing. Option 2 Create a “How to guide” for hand stitching using images and words Option 3 Create a mood board of different embroidery artists, include their names.

#### **Music: BBC 10 Pieces**

Above and Beyond Orchestra Land! - Design a theme park based on the instruments of the Orchestra. This could be a physical model design or could be blueprint-style design drawings.

Option 1 Using the BBC 10 Pieces website, create a Track of the week set of questions about one of the 10 pieces, This should include keywords such as tempo, dynamics, instrumentation, texture and mood etc. Option 2 Find a piece of music that uses each of the following techniques: 1. Crescendo 2. Diminuendo 3. Accelerando 4. Rallentando. Option 3 Listen to a classical piece of Music and write your review which should include: melody, instrumentation, tempo, dynamics and key information about the composer.

#### **RE: Morality of Justice**

Above and Beyond: Write a script for a person who is in court defending a person that has ‘broke the law’ by protesting against racism in the UK.

Option One- find two examples of news stories that explain when justice has been served or when it has not been served. Option Two- Research one law in the UK and explain why this has been created. Option Three- Create a newspaper article about ‘Why rules should be followed?’

### **February 5th to 9th - Science, History, Technology, PE**

#### **Science: Acids and alkalis**

Above and Beyond: Research what heartburn is and what antacids do. Draw diagrams of the digestive system and write chemical equations to show what happens during heartburn and after you take antacid medication. Go further to create artificial stomach acid (using vinegar or lemon juice) and explore what happens when you add antacids. See if there is a difference if you crush the tablets compared to adding them whole.

Option 1 Find out how to make your own indicator out of red cabbage. With adult help, make and test your indicator on a range of household liquids (e.g. soap, drinks, fruit juices) Draw a table of results to show your findings. Option 2 Vinegar volcano! Find out how to make a model volcano using vinegar and baking soda. Make a model volcano and describe what is happening in the neutralisation reaction between the vinegar and baking soda. Option 3 Draw a colour a pH scale.

### **History: Victorian England**

Above and Beyond: Write your own police report about Jack the Ripper

Option 1 Design a newspaper front page explaining what it was like to live in Victorian England. Option 2 Draw a mind map to show evidence of the Jack the Ripper case. Option 3 Summarise your learning of life in Victorian England in over 100 words

### **Technology: Coat hook**

Above and Beyond: Find one Pine product online or in your home that you think could be improved. Re-design this product, changing materials or aesthetics, explaining reasons for your changes.

Option 1 Create a research page on the three different categories of wood, use colours and bold titles to make it look interesting. Include: category names, types within these, properties & product examples. Option 2 Write a list of pine products that you can find in and around your home. Option 3 Pine is slightly durable. Research what this term means and explain.

### **PE**

Above and Beyond: Watch one of the Newcastle teams play a live fixture taking a photo of yourself at the game. For example Newcastle United men or women, Newcastle Falcons or Newcastle Eagles. Or an amateur local sporting fixture.

Option 1 Take part in sporting activity during the weekend every week of the Half Term. Option 2 Use You Tube to learn a new skill eg, headstand or a football trick. Option 3 Complete 12,500 steps every day for a week.

### **February 12th to 16th- English, Geography, French**

#### **English: Creative Writing**

Above and Beyond: Write your own story/play with a link to one of the images you looked at.

Option 1 Creatively present what you have learnt about creative writing in lessons and through your own research. Include information on plot, characters and themes. You can present this any creative way you wish, e.g., a model, a video, etc. Be creative! Option 2 Write a poem in response to an image that you have chosen yourself. Write an explanation as to why you chose the image and what your poem means to you. Option 3 Create a collage of images, linked by theme and then write a creative piece of writing based on the images.

#### **Geography: Are deserts hospitable places?**

Above and Beyond: Create a sandpaper image of a desert. (Be careful sandpaper can be rough.)

Option 1 Take a photograph of a cactus and share it with the class. Option 2 Create a poster of a biome of your choice – do not use deserts. Option 3 Make a scrap book showing different features of a desert.

#### **French: Paris, Je t'adore**

Above and Beyond: Make a 3D model of your favourite monument in Paris.

Option 1 Create a holiday brochure for a weekend in Paris. Option 2 Log on to Languagenut and score as many points as you can. Option 3 Draw a mindmap illustrating what you have been learning this half term.