**Year 9 Option Activities**

**Teachers in charge of option subjects were asked which computing activities/skills would be most useful to students choosing their GCSE option subject. The list follows below. Depending on your option choices, pick a subject and make sure that you can do the things listed.**

**MFL**

* produce a sheet (find one on internet) of the shortcut keys for accents e.g. alt+225=ß
* Make sure that you are familiar with **all** the language software from the school webpage.
* Research a Spanish, French or German speaking country e.g. Nicaragua, Tunisia; research interesting facts about that country and produce an interesting and attractive fact sheet.
* Find other online resources that will help with learning your chosen language.
* Put together a grammar guide which should cover main grammatical points covered in years 7-9. Look at KS3 mark scheme (pink sheet ) for inspiration

**D&T**

* Make sure you are happy using 2D design / Corel Draw / Corel Photopaint, in order to draw vector shapes, edit photos and crop photos.
* Make sure you can draw basic graphs in Excel, i.e. bar charts, pie charts and line graphs.
* Work through tutorials using Google Sketchup.

**Nutrition**



All computers should have this programme installed. This program works out the nutrition of a recipe and can also be used to print out a traffic-light label which can be exported to other documents, which is most useful.

Work with the two recipes in this folder O:\ICT\Catering GCSE Worksheets

* Click on the Nutrients logo and then enter your name and their class. Then, open up the Bolognese Sauce recipe and input the ingredients and amounts for a Bolognese sauce. After, produce a label and a nutritional analysis for this dish.

To input ingredients, click on the binoculars logo (food finder) and input the food and the amount as show on the recipe. E.g. type in “mince” and a drop down menu will appear. Then select “beef, mince, raw extra lean” and enter and click “add to food list”. This will then create a list of ingredients going in to the dish. You then have to add the amount. The list will build up in green on the right hand side of the page. Keep doing this until all of the ingredients have been added. Once all of the ingredients are in you can investigate what the other buttons at the top do i.e. nutrition analysis, compare DRV’s (daily recommended values) so they can see what they need to intake during the day, investigate nutrients, label and cost.

* Repeat this for the chocolate cupcake recipe and use both to analyse whether they are healthy for them or not. They can change the ingredients to see if they can make the dish healthier.
* There is also a resources button which contains worksheets that you can have a go at.

**Photography**

Students need to know:

* how to take photos off a camera/phone/memory card etc
* how to create folders etc
* how to use Powerpoint to present work – using **standard size slides!**
* how to use Photoshop to manipulate their images...eg layering/changing colours...all or one area/add effects

Research and make fact sheets for each of the following photographers:

**Ansel Adams Merve Ozaslan Brno Del Zou Sven Pfommer**

**Tatsuya Tanaka Marcelo Monreal Kevin Best Matt Molloy Christoffer Relander**

**Music**

1. Go onto the vocabulary learning website, QUIZLET, and type in JDRMU1 into the search box. All the lists link to new terminology for the new specification.  **Learn the vocabulary.**
2. In addition, pupils should become familiar with the following works (audio files available on [O:\Music\GCSE Anthology of Music Edexcel](file:///\\PRIME\Pupils\Music\GCSE%20Anthology%20of%20Music%20Edexcel) ):

* Beethoven’s Pathetique Sonata 1st Movement.
* Bach’s Brandenburg Concerto No. 5 3rd Movement.
* Purcell’s Music for a While
* Killer Queen by Queen
* Defying Gravity from the musical Wicked.
* Main title theme from Star Wars by John Williams.
* Afro Celt Sound System’s Release
* Esperanza Spalding’s Samba Em Preludio

1. Students should create a brief research project for each of the pieces above focusing on key information.

**Geography**

* Produce basic graphs/charts using Excel (bar chart, pie chart, line graph). These should have titles and be properly labelled.
* Using Word or Powerpoint, prepare fact sheets for each of the following countries: USA, New Zealand, Haiti and Philippines. Pay particular attention to how these countries might be affected by natural disasters: earthquakes, volcanoes, tsunamis etc.

**Art (GCSE & BTEC)**

Research and make a fact sheet about **each** of the following artists:

|  |  |
| --- | --- |
| * Banksy (BTEC only) * Louis Jover * Shepard Fairey * Sarah Beetson * E. A Seguy | * David Hockney * Angie Lewin * Andy Warhol * Luke Dixon * Mark Powell * Ines Kouidis |

On the fact sheet, include biographical information, examples of the artist’s work and a paragraph about your feelings on that artist’s work. The design of the fact sheet should in some way reflect the artist’s work.

**CPLD**

* Find out about how nurseries are run.
* List nurseries in this area. Make a fact sheet for each one.
* Say why you are interested in CPLD. This could go on a letter of application for a job.

**Computing**

Begin familiarising yourself with the Python programming language. The program that we use to write the Python programmes with is called Pyscripter – you should be able to run this.

* Look through the resources and examples on O:\ICT\Python examples scripts and notes.
* Use the website usingpython.org (password GL7 1HS).
* Look for other online resources by searching for “learning Python”

**European Computer Driving License**

REMEMBER THIS IS NOT AN OFFICIAL OPTION ON YOUR OPTIONS LIST, YOU CHOOSE TO DO IT AS AN AFTER SCHOOL CLUB IN YR 10! ECDL is an IT qualification that is equivalent to a GCSE. It demonstrates your ability to use Office software.

* Use the materials on O:\ICT\ECDL to test what you know (see Mr W for help)

**P.E.**

* Design your own sports logo as if you were seeking sponsorship
* Research a sport, sporting topic or sport event of your choice. Create a fact sheet to present this information. Include any rules and regulations.
* Collect statistics for a sporting topic or event. Create a fact sheet to present this information. Use graphs to present the data as well as numbers.
* Create a training timetable linked to personal training using a spreadsheet. Use formulae to calculate averages and Personal Bests etc.

**Science**

**You have already started your Biology GCSE work.  To help support your Chemistry and Physics next year:-**

* **Chemistry:** Look up the history of the atom and try and find out about ‘the plum pudding model’ and the atomic model we use today
* **Physics:** Find out about the 8 energy stores – be careful to use an up to date website like BBC Bitesize GCSE

**History**

* When you start your GCSE you will be studying Medicine and Health through time. Research the following and produce a summary about each thing:

Hippocrates

Galen

Four Humours

Black Death

Vesalius

Pare

William Harvey

Anaesthetics

Antiseptics

Germ Theory

Penicillin

**Philosophy & Ethics**

Copy and paste the following list of research topics into a Word document. Each week, find out about current news stories, categorise and record them into your list.

Topics to research:

* Equality
* Prejudice and Discrimination
* Natural and Moral evil
* Freedom of Speech
* Medical Ethics
* Human rights act
* Censorships
* Media generation
* Islamaphobia
* Westoxification

**Drama**

Research the various jobs that are associated with theatre beyond acting, i.e. directing, producing, stage design, prop making, make-up, music, costume, choreography, technical, sound, lighting etc. For each of these jobs, produce a factsheet.

**English**

When you start back in September you’ll be studying poetry.  To help you prepare for this, pick one of the poems from the list below and research it.  Find and read the poem and then create a slideshow or movie which captures the key images described by the poet.

* War Photography by Carol Ann Duffy
* Remains by Simon Armitage
* The Charge of the Light Brigade by Alfred Lord Tennyson
* Storm on the Island by Seamus Heaney
* London by William Blake

**Statistics**

* Understand what a scatter graph is and what it is used for.
* Be able to draw a scatter graph from two sets of related data – both on paper and using Excel. Be able to draw the line of best fit; be able to find the equation of the line; be able to find the correlation.