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Year 10 Summer Transition Work

GCSE Maths

Look back over the green marking stickers in your books, particularly those from your examinations. Make good use of all the available resources and links on ItsLearning to help you meet your 'next steps' targets. It is a great idea to do 10 minutes of mathematics every day to stay fresh and ready for the year ahead. Try TT Rockstars, corbettmaths, Mathsbot or onmaths to help you fill your 10 minutes. Enjoy!

GCSE RE

Please read over your notes on everything we have studied so far. You should aim to ensure that you have revision cards or mind maps for each of the topics covered so far:

- Judaism: Beliefs and teachings
- Judaism: Beliefs and Practices
- Catholic: Beliefs and teachings
- Catholic: Beliefs and Practices
- Catholic: Forms of worship and expression
- Philosophy: Relationships and family life in the 21st century

GCSE History

The History department has produced TWO revision booklets that pupils could complete in order get ahead of their Year 11 Revision. Pupils are being encouraged to complete ONE of these booklets over the summer – they could complete both! The booklets cover two of the three areas we have taught in Years 9 and 10.

There is a revision booklet each for:

- USA 1920-1973: Opportunity and inequality
- Norman England 1066-c1100

These revision booklets are available on Its Learning.

GCSE Sociology

- Use the topic 'PLCs' and revision guides to review the topics which have been studied in Year 10 (every student has their own revision guide)
- Access the slides and videos on its learning to remove any learning gaps which have occurred during the year
- Complete the practice exam questions within the revision guides to test your knowledge

- Watch the news to stay up to date which issues surrounding families, education, crime and poverty
- Continue to use the Sociology 'spaced revision' method which is on the student bookmark

BTEC Health and Social Care

- Due to the course being 100% coursework class teachers will be giving students specific tasks to complete over the summer

GCSE Business

Please read over your notes on everything we have studied so far. You should aim to ensure that you have 'actively' revised for each of the units covered so far:

- 3.1 Business in the real world
- 3.2 Influences on business
- 3.4 Human resources

All lesson resources and revision materials, including an up-to-date learning checklist, are available via the Learning Platform (Its Learning).

GCSE Computer Science

All pupils will be given a booklet consolidating work covered during Year 10. The booklet is there to prepare you for a test in your first lesson in September 2018.

Topics include:

- Systems Architecture
- Memory
- Computational Logic
- Data Representation
- Algorithm design
- Programming

Certificate in Digital Applications (CiDA)

Please practice your website skills ready for the practical examination. If you are not sure, refer to the Learning Platform (Its Learning) and the tutorials for Unit 1.

For Unit 3 (Artwork and Imaging) make notes or revision cards about Vector and Bitmap images. What are they? What are the differences? Don't just copy from the Internet; put any notes into your own words.

BTEC Business

Conduct research into 2 small businesses in the local area. These can be hairdressers, barbers, fish & chip shops, car wash, nail/beauty bars, window cleaners or any other suitable small business.

Using your research you should be able to:

- Describe the business and the product or service that it sells
- Describe the location of the business
- The prices that the businesses charge
- The target customers of each business
- Describe how each business promotes itself (social media, leaflets, adverts, etc..)

GCSE PE

Review your green marking stamps and go back through your topic tests, assessments and year 10 PPE. Use revision cards to recap everything learnt so far through the course, particularly the content delivered in year 9 (this is Chapters 1 – 4 in the OCR text book) Ensure you complete your summer homework booklet as this will provide significant support when you are completing your controlled assessment after the summer holidays. Complete your competitive logs for all three sports you have covered this year to provide evidence to support your practical grades. Use the resources on Its Learning and the OCR GCSE PE website to help you.

GCSE D&T

Pupils who study GCSE D&T have embarked on their contextual challenge- the NEA, which accounts for 50% of the final grade. Pupils have already conducted a wide range of exploration work and have started to be creative as they design and create solutions to their briefs. Pupils are producing their own e-portfolios and any work produced by hand can be scanned and placed into these e-portfolios. When they return in September, all pupils should have a fully complete exploration section including; a context brainstorm, a context mood board, stakeholder investigations, primary user investigations, exploration of existing products, exploration of wider issues, an inspiring mood board and some initial design ideas. Pupils who manage their time well and meet deadlines find success in the NEA. All pupils can attend tech club every Wednesday after school until 5pm. A project management skills guide can be found here: <http://www.ocr.org.uk/Images/168828-the-ocr-guide-to-managing-projects.pdf> .

GCSE FP&N

Pupils will be starting NEA1 (weighted at 15%) in September. This is a food science investigation and the topics will be released to teachers from the exam board in September. Pupils will commence NEA2 (weighted at 35%) in November when topics are released to teachers from the exam board. To prepare for these assessments it is advised that pupils spend some time over the summer improving their technical cooking skills, with reference to the skills list they have been provided, so that they are able to adeptly demonstrate these skills throughout the NEAs. Pupils who manage their time well and meet deadlines find success in the NEA. All pupils can attend tech club every Wednesday after school until 5pm.

OCR National Engineering Design

There are 3 coursework units in this qualification and one externally examined unit. These are all weighted at 25%. Pupils have already sat the external exam and have also submitted a draft version of R106 for assessment before the summer holidays. Pupils should spend some time over the summer ensuring that all of their work for R106 is complete to the best standard it possibly can be before resubmitting in September. Pupils will commence work on R107 as soon as they return in September and there will be no additional time to work on R106. Pupils who manage their time well and meet deadlines find success in coursework assessments. All pupils can attend tech club every Wednesday after school until 5pm.

OCR National Engineering Manufacture

There are 3 coursework units in this qualification and one externally examined unit. These are all weighted at 25%. Pupils have already sat the external exam and have also submitted a draft version of R110 for assessment before the summer holidays. Pupils should spend some time over the summer ensuring that all of their work for R110 is complete to the best standard it possibly can be before resubmitting in September. Pupils will commence work on R111 as soon as they return in September and there will be no additional time to work on R110. Pupils who manage their time well and meet deadlines find success in coursework assessments. All pupils can attend tech club every Wednesday after school until 5pm.

VCERT Food and Cookery

Pupils should spend some time over the summer honing their cooking skills and experimenting with new techniques and recipes.

GCSE Art

Yr10 have started their final project "Fragments" and would have been set specific work to do by their teacher. What they should be doing to be successful is gathering resources such as photos, internet images and information about artists they wish to link to their work so they have several ideas of ways to respond to the theme.

GCSE Music

- Read through your exercise book on everything that we have covered so far (Area of Study 1: *Musical forms and devices*, and Area of Study 2: *Music for Ensemble*).
- Recap reading notation in the **treble** and **bass** clefs.
- Recap **Key signatures** (sharps and flats).
- Use GCSE Bitesize to read about the following:
 - *Bhangra*
 - *Film music*
 - *Musical theatre*
 - *Jazz*

GCSE Geography

In preparation for your PPEs, go over your notes and produce a revision resource for these three topics:

1. Global Cities in HICs: Sydney
2. Global Cities in LICs: Mumbai
3. Climate Change

These need to be brought in during the first week of term.

GCSE English

The English Department has provided a summer revision booklet which will be distributed to all Year 10 students to complete over the summer holiday.

This has been provided further support for students in preparing for their first PPE which is a practice English Literature Paper 2 in which students will respond to questions in relation to 'An Inspector Calls', 'The Conflict Poetry Anthology' (based around comparison of two poems) and an Unseen Poem to take place towards the end of October (there will also be a GS practice question in Week 2 which students will complete at home in order to reflect on their revision).

The revision resource will require students to review these texts and answer questions to demonstrate understanding and analytical skills. Moreover, the resource also offers further opportunities to extend their learning through extended reading and planning essay responses.

GCSE Science

Biology

1. We are in the middle of a heatwave, phew! Write your own article on why we have got to conserve water during this time and how the problem can be solved. What if you were a journalist for a scientific journal, how would you publish this article? Make sure you reference your work in the Harvard style.
2. Ensure that you know how to access the exam board web page for your course. For separate science, you should google "OCR Gateway Biology A" and for combined "OCR Gateway Combined Science A" Check that you can see where to find the specification, which is on the course page. Save the specification or email yourself a link to it – you will need to refer to this throughout your exam preparation. Go into the assessment section and look in 'sample assessment materials' where you will find exam papers and mark schemes.
3. Make a mind map about each of the units B1-B4 (Triple Biology) or B1-B3 (Combined Science Biology).
4. Write down three specific questions from B1-B4 (Triple Biology) or B1-B3 (Combined Science Biology) which you need to ask your teacher in order to further your understanding; there will be time for this in the first week back to school.

Chemistry

Over the summer, it would be a good idea to see some Science working in context. Use the following resources and aim to apply the Chemistry knowledge we have gained over the past year.

You should aim to complete 3 of the following tasks:

- Buy a copy of The New Scientist and read the headline article (at least!)
- Watch [this video](#) and make sure you can balance equations
- Read your notes from units 1 and 2 and create some flashcards for revision ready to use next year. Make sure you have included all the historical figures and their achievements.

- Write your own article on plastics in our oceans and how the problem can be solved. There is lots of information on the BBC website you get your research started. Maybe upload it to a publishing site such as [Hubpages](#). Wouldn't it be great to be a published Scientist? Make sure you reference your work in the Harvard style.
- Watch [this video](#). Was it an interesting experiment or a complete waste of time? Discuss with someone else what your opinion is.
- Draw a mind-map of everything you can think of related to energy in a chemistry context. You can use [prezi](#) or [mindmapmaker](#) if you prefer to do a digital version and also gain a new skill at the same time.
- Create a model showing the structure of 2 allotropes such as diamond and graphene. If you use marshmallows you can eat it after ;-)
- Read [this article](#) on fracking. How would you feel if a fracking company wanted to dig under your house?
- Visit The Natural History Museum and spend some time in the crystal section. Pay attention to the composition of each crystal, they aren't just shiny, pretty rocks.

Physics

1. Use the formula recall sheet given out in lessons and available on ITS Learning to support you in learning these. Ask someone to test you or make flash cards to test yourself.
2. Using the course specification as a checklist, check that you have notes on P1-P6 (separate) or P1-P4 (combined). If you do not, make some summary notes using your revision guide.
3. Write down three specific questions which you need to ask your teacher in order to further your understanding; there will be time for this in the first week back to school.
4. Ensure that you know how to access the exam board web page for your course. For separate science, you should google 'OCR Gateway Physics A' and for combined 'OCR Gateway Combined Science A'. Check that you can see where to find the specification, which is on the course page. Save the specification or email yourself a link to it – you will need to refer to this throughout your exam preparation. Go into the assessment section and look in 'sample assessment materials' where you will find exam papers, mark schemes and data sheets. Print a copy of the data sheet to keep in your book, preferably before your first physics lesson, but certainly before the end of the first week back at school.