

The Henry Box School Year 13 Preparation



Summer work

Year 13 Preparation

Dear Students

In order to prepare you for the upcoming academic year we feel it is important that you continue to study effectively for all of your courses.

This booklet will provide you with the following:

1. A list of tasks/content that you should have completed during the time you have been working remotely. This must be completed before you return in September. Failure to complete these tasks and be up to date with work will result in use of the stage system/a review of your place in sixth form.
2. Optional learning which you can choose to do if you want to over the summer. This is particularly useful if you are hoping to take one of your subjects at University. Don't forget that you can also use the MOOC function on unifrog for extra courses

Have a lovely summer, we look forward to seeing you in lessons in September

Mr Tysom

Psychology Summer Work

What you should have completed so far...

Mrs Hewett's work

- The whole topic of Attachment. Description content (pages 74-92 left hand pages only)
- Issues and Debates in the Year 2 book (Pages 102+ 104 left hand side only)

Miss Quigley's work

- The last topic in Memory- The Cognitive Interview including evaluation (62-63)
- The whole topic of Social Influence. Description content (pages 15-35 left hand pages only)
- Issues and Debates in the Year 2 book (Pages 94-100 left hand pages only)

Optional reading/learning

The Social Science Reading challenge

Reading of the Year 2 Digi book. Our topics are Relationships, Aggression, Eating Behaviour, Biopsychology, Issues and Debates and Research Methods

Complete a free online course that goes beyond your A-level topics. A suggested list will be in the files folder on teams

English Summer Work

What you should have completed so far...

Miss Roberts's work

- Read and annotate *Tess of the D'Urbervilles*
- Annotate the poems in the pre-1900 anthology
- Complete thematic grid for poems in the pre-1900 anthology
- Complete planning tasks for Paper 1, Section C
- Write and submit Paper 1, Section C practice exam
- Complete thematic flash cards for *Othello*
- Write and submit Paper 1, Section A practice exam
- Create scrapbook as part of the NEA extract project

Mr Todd's work

- Mini Essay on Streetcar and The Handmaid's Tale
- Seneca Revision (Streetcar and Handmaid's)
- Read Dorian Gray.
- Quote Grids for Dorian Gray and optional text.
- Thematic research for NEA.
- NEA draft question choices.

Summer Homework and Research

Create an essay plan for your chosen NEA theme and question. Use the 'NEA planning guide' PowerPoint to help you (given in final week of term). Ensure you have also found secondary sources to support your analysis of the two main texts.

Religious Studies Summer Work

What you should have completed so far...

Miss Clarke's Work:

- Holy Communion – Catholic and Protestant comparison (page 343 –346 of the Year 1 textbook)
- Holy Communion essay: **Explain the *practice of Holy Communion***. (10 marks).
- Research Mission to the Christian Community (pages 346-350 of the Year 1 textbook)

All of these are available on Teams if you need more information.

Miss Hardie's work

Please look on Teams and make sure you have completed all tasks and assignments on the following topics:

- Evil and Suffering
- Religious Experience

You should also have read through the chapters in the book on those topics (ch. 2 and ch.3).

Summer Homework and Research

Make sure your folders are organised for Year 1 – you need a section for each unit, with your notes in chronological order. Each unit section should have essays and retrieval practice at the back.

Buy your Year 2 [textbook](#).

Watch and make notes of the [University of Chester lectures](#).

Read a book or two from the Social Science reading journal. You can find the journal in the Files section of our Team.

Geography Summer Work

What you should have completed so far...

Mrs Waugh's work (Physical)

Please look on our Teams group and make sure you have completed all the assignments for:

- Tectonics (Enquiry Question 1)
- Coasts (EQ 3 and 4)

Mrs Goddard's work (Human)

Please look on our Teams page and make sure you have completed all the loom lessons for:

- Chapter 16 : 16.2 and 16.3
- Chapter 17: 17.1, 17.2-3
- Chapter 18

Summer Homework and Research

Make sure your work is organised from Year 12.

Keep an eye on current articles in the following places, they all often have information relevant to our topics:

- The Guardian Newspaper [/environment](#) and [/society](#)
- <http://geographical.co.uk/>

Read a book or two from the Social Science reading journal. You can find the journal in the Files section of our Team pages.

Physics Summer Work

What you should have completed so far...

The **Astrophysics Course** for the paper 3B topic is laid out on Teams better than I can lay it out here.

Please email Dr Smith or Mr Davies if you have any trouble accessing that.

You need to make an **Isaac Physics account** and work through the Year 1 topics in the summer. They are all assigned to our class.

Keep a list of questions that stump you. You can email Dr Smith about them. Contacting Isaac Physics also works – they love to help – but allow for the fact it's the summer.

Optional Resources for Revision and the Supercurriculum

There are lots of opportunities, online courses and links on the Channels in our Physics Team.

Check out university courses including Physics. Astrophysics, Engineering, Materials Science

SenecaLearning do a free A level physics service.

<https://app.senecalearning.com/courses?Subject=Physics&text=physics>

<https://isaacphysics.org/>

<https://i-want-to-study-engineering.org/>

<https://www.my-mooc.com/en/categorie/Physics>

<https://home.cern/resources?topic=1113>

<https://www.thingswedontknow.com/physics/>

<https://sjcinspire.com/category/physics+questions/>

<https://www.bpho.org.uk/>

Chemistry Summer Work

What you should have completed so far...

The **Equilibrium and Energetics 2** topics are laid out on Teams (June/July) better than I can lay them out here.

Please email Dr Smith if you have any trouble accessing that.

You need to make an **Isaac Physics (Physical Chemistry) account** and work through the Year 1 topics I have unlocked in the summer.

Keep a list of questions that stump you. You can email Dr Smith about them. Contacting Isaac Physics also works – they love to help – but allow for the fact it's the summer.

Optional Resources for Revision and the Supercurriculum

There are lots of opportunities, online courses and links on the Channels in our Chemistry Team.

Check out university courses including Chemistry, Biochemistry, Molecular Biology, Chemical Engineering, Materials Science, Computer Science

SenecaLearning do a free A level chemistry service <https://senecalarning.com/en-GB/blog/a-level-chemistry-revision/>

<https://isaacphysics.org/>

<https://www.chemguide.co.uk/>

<https://sjcinspire.com/category/chemistry+questions/><https://sjcinspire.com/category/questions/>

<https://www.thingswedontknow.com/chemistry/>

<http://www.synthesisexplorer.co.uk/>

<https://edu.rsc.org/resources/analysis>

<https://www.acdlabs.com/resources/freeware/chemsketch/>

Biology Summer Work

What you should have completed so far...

You should have finished and be up to speed all on the year 12 work now.

Topic 1- Biochemistry

Topic 2- cells and viruses

Topic 3- Ecology

Topic 4- Transport

We finished topic 4 remotely so you may need to revisit this. Make sure you know about the potometer required practical.

We have also completed 6.1 and 6.2 of the year 13 course.

Including the theory linked to required practical 12 and 13.

Any issues with any of this please email.

Optional Resources for Revision and the summer

Please ensure that your year 12 notes are completed and organised.

Make sure you have the year 13 textbook. Quizlet has some useful revision resources:

<https://quizlet.com/207921340/biology-b-1-flash-cards/>

There are also some quite interesting podcasts here:

<https://www.sciencemag.org/podcasts>

Sociology Summer Work

Below is a list of the **minimum** work you **must** complete. Use the power points, Loom videos and textbook to help you. I expect beautiful presentation and detailed notes. Try also to review your work using the retrieval practice timetable for terms 5 and 6, so you remember your sociology forever!

Methods (Year 1 textbook)

- Observations
- Experiments
- Official statistics
- Documents
- Content analysis
- Case studies
- Longitudinal studies

Global development (Year 2 textbook)

- What is development?
- How is development measured?
- Modernisation theory
- Dependency theory
- World Systems Theory
- Post development theory and People centered development theory
- Neo-liberalism

Over the summer I will set you a timetable of retrieval practice to keep your sociology studies fresh in your minds ready for September. Please check Teams regularly.

Economics Summer Work

What you should have completed so far...

These topics

- Behaviour/rationality
- Economic indicators
- Fiscal policy
- Monetary policy
- Supply side policy
- Conflicts in economic indicators
- Elasticity of demand
- Elasticity of supply

Optional Resources for Revision and Extension of Knowledge

Watch the Uni of Warwick talks if not already done so

Tutor2u website and additional lessons - <https://www.tutor2u.net/economics/collections/online-lessons-for-year-12-alevel-economics-students>

Additional reading and tasks based on recent events - <https://www.tutor2u.net/economics/collections/enrichment-tasks-for-alevel-economics-students>

Seneca Learning - <https://app.senecalearning.com/classroom/course/d903555c-0201-4e4b-b4f4-8a5ad1345c9e>

Theme 1 key terms on Quizlet - <https://quizlet.com/BizattheBox/folders/theme-1-economics/sets>

Theme 2 key terms on Quizlet - <https://quizlet.com/BizattheBox/folders/theme-2-economics/sets>

Read an economics book e.g. Freakonomics or The Undercover Economist

Watch an economics program/film e.g. The Big Short or Dirty Money

Mathematics Summer Work

What you should have completed so far...

Mrs Moss' work

Year 1 Mechanics

Constant and variable acceleration.

- Revision of constant acceleration and variable acceleration topics (MyMaths)
- Integral test V1
- Integral topic assessment

Year 1 Pure

Exponentials and logarithms

- 3 sections each with a video (on teams) completing exercise level 1 and 2 after each one.
- Integral tests L1, L2 and L3
- Integral topics assessment

Year 2 Pure

Sequences and Series

- 3 sections each with a video (on teams) completing exercise level 1 and 2 after each one.
- Integral tests S1, S2 and S3
- Integral topics assessment

Dr Pinnock's work

Year 1 Statistics

Hypothesis Testing:

- 2 loom videos (on Teams)
- Integral section tests H1 and H2
- Integral unit test

Year 2 Pure

Binomial expansion

- Stages 1-4 (word docs on Teams)
- A1 section test on Integral

Algebraic fractions

- Word doc on Teams

Rational Functions

- Polynomial division – word doc on Teams
- Integral A2 section test
- Partial fractions – all docs on Teams
- Integral A3 section test and end of unit test for Further Algebra

Functions (not assigned yet)

- Complete Teams assignments
- Integral section and unit tests

Optional reading/learning

Comprehension reading: Use this link to read at least the first 6 articles (full details on Teams) about topics like 'Electing members of European Parliament' and 'Modelling athletic records.'

https://mei.org.uk/files/papers/All%20packs/MEI_C4b.pdf

Seneca learning: Complete this summer course <https://app.senecalearning.com/dashboard/join-class/13xtrujm8c> (See teams for the sections to complete.)

Imperial MOOCs (self-paced) covering all of the Year 12 content:

<https://courses.edx.org/courses/course-v1:ImperialX+alm001+3T2018/course/>

<https://courses.edx.org/courses/course-v1:ImperialX+alm002+1T2019/course/>

Further Mathematics Summer Work

What you should have completed so far...

Henry Box School Work

Mr. Randall (See SMHW for detail)

Differentiation

- Integral assessments 1, 2 and 3
- Additional rates of change task PPT

Trigonometry

- Chapter 6 CGP Trigonometry
- Chapter 18 CGP Trigonometry 2
- Integral assessments Trigonometry Year 1/2

Revision

- Exam question PPT

Mr. Richens (See SMHW for detail)

Geometric Distribution

Chi Squared

- Test
- Goodness fit
- And proportion
- Significance test

Binomial

- Goodness fit

Correlation

Spearman Rank correlation

Regression

Large data base

Wood Green School Work

Section tests from integral A-level mathematics

- Quadratic functions (Year 1 As pure)
- Polynomials (Year 1 As pure)
- Graphs and transformations (Year 1 As pure)
- Differentiation (Year 1 As pure)
- Exponentials and logs (Year 1 As pure)
- Vectors (Year 1 As pure)
- Sequences and series (Year 2 pure)
- Functions (Year 2 pure)
- Vectors (Year 2 pure)
- Kinematics (Year 1 As mechanics)
- Forces and Newton's laws (Year 1 As mechanics)
- Variable acceleration (Year 1 As mechanics)
- Kinematics (Year 2 mechanics)
- Forces and motion (Year 2 mechanics)
- Moments of forces (Year 2 mechanics)
- Projectiles (Year 2 mechanics)
- A model of friction (Year 2 mechanics)

Section tests from integral A-level further mathematics

- Complex numbers (Year 1 As further pure)
- Complex numbers and geometry (Year 1 As further pure)
- Algorithms (Modelling with Algorithms)
- Modelling with graphs and networks (Modelling with Algorithms)
- Network algorithms (Modelling with Algorithms)
- More network problems (Modelling with Algorithms)
- Linear programming (Modelling with Algorithms)
- The simplex method (Modelling with Algorithms)

Optional reading/learning

Seneca learning: Complete this summer course <https://app.senecalearning.com/dashboard/join-class/13xtrujm8c>

Discrete mathematics - <https://link.springer.com/book/10.1007%2Fb97469>

Introduction to Partial Differential Equations - <https://link.springer.com/book/10.1007%2F978-3-319-48936-0>

A Pythagorean Introduction to Number Theory - <https://link.springer.com/book/10.1007%2F978-3-030-02604-2>

Linear and Nonlinear Programming - <https://link.springer.com/book/10.1007%2F978-3-319-18842-3>

Reading, Writing, and Proving - <https://link.springer.com/book/10.1007%2F978-1-4419-9479-0>

If you have time and resource for a book try one of these - <https://mei.org.uk/books2>

You will need to register to access this sight, but it is all free - <https://oxbridgeapplications.com/resource/mathematics-reading-list/>

German Summer Work

What you should have completed by the end of term 6

Mr Stewart

Kunst & Architektur (19th June): 1. Was ist Kunst? Was ist Architektur? 2. Braucht man Kunst? Warum (nicht)? 3. Welche Rolle spielt Kunst in Ihrem Leben?

Kunstabewegungen (26th June): 1. Research any two of the following artistic/design movements - 'Der blaue Reiter', 'Jugendstil' or 'Bauhaus' and write a summary in English for each of no more than 90 words each describing who the main artists were, what the principal style was and what they hoped to achieve by choosing this style. 2. What are your thoughts about the two you have chosen?

Revision exercises themes 1 & 2 (17th July): see SMHW for details

Mrs Armstrong

Almanya – Willkommen in Deutschland (film workbook)

Wie analysiert man einen Film?
Humor und Filmgattung

Was die Presse dazu sagt

Symbolism – Coca Cola and Crucifixes

Essay Part 1 – Essay planning

Essay Part 2 – Draft for

“Wie würdest du dich ohne deine Staatsbürgerschaft fühlen?”

Essay Part 3 – Perfection of essay!

Summer homework & further reading

Very important - read 'Andorra' by Max Frisch

Consider also

Andorra study G. Brammall https://www.amazon.co.uk/Modern-Languages-Study-Guides-level/dp/1510435638/ref=sr_1_14?dchild=1&keywords=andorra+frisch&qid=1594297803&s=books&sr=1-14

Andorra critical notes M. Butler https://www.amazon.co.uk/Frisch-Andorra-Critical-Guides-German/dp/0729303713/ref=sr_1_5?dchild=1&keywords=andorra+frisch&qid=1594297887&s=books&sr=1-5

Read and translate the Knowledge Organisers which are intended to help you with your independent research project

Keep up to date daily with current affairs on <https://www.zdf.de/kinder/logo> and www.welt.de

Migration & Integration <https://www.deutschland.de/en/migration-and-integration>

History & Impact of migration on German society p13-39 https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/networks/european_migration_network/reports/docs/emn-studies/illegally-resident/de-finalstudy-eng_en.pdf

Barriers to integration <https://www.infomigrants.net/en/post/9905/integration-in-germany-we-can-do-it-but-we-re-not-there-yet>

Racism in Germany <https://www.dw.com/en/racism-on-the-rise-in-germany/a-53735536>

Germany and the EU https://europa.eu/european-union/about-eu/countries/member-countries/germany_en
<https://www.reuters.com/article/us-europe-single-market-study/germany-wealthy-regions-are-biggest-winners-of-eu-single-market-report-idUSKCN1SE07Z>

The DDR <https://www.dw.com/en/east-germany-a-failed-experiment-in-dictatorship/a-50717157>

German reunification 30 year on <https://www.dw.com/en/former-east-germany-still-lags-behind-west/a-50583236>

History Summer Work

What you should have completed by the end of term 6

Russia (Mr Manthorpe)	War of the Roses (Mrs Pearce)	NEA (Mrs Neal)
<p>Please look on our Teams and make sure you have completed the following assignments:</p> <ul style="list-style-type: none"> • Opposition • Review and impact of WW1 • Political change • Changes in the political system • October revolution • Bolshevik consolidation • Revision of year 12 	<p>Please look on our Teams and make sure you have completed the following assignments:</p> <ul style="list-style-type: none"> • Readeption of Henry VI • Battle of Barnet and Tewkesbury • The impact of the baronial wars • Recap and revise year 12 	<p>Please look on our Teams and make sure you have completed the following assignments:</p> <ul style="list-style-type: none"> • US Civil War • US Political system • Reconstruction • Jim Crow laws • Protest Vs Accomodationism • Race Relations • The Inter-war years • Black Americans in WW2 and the Double V campaign • Truman and the aftermath of WW2 • Brown vs. Board of Education • Rosa Parks and the Montgomery Bus Boycott • Federal government intervention 1957-64 • Martin Luther King

Summer homework & further reading

Before the end of term you need to have done the following to prepare for your NEA. These must be submitted to Mrs Neal ASAP.

1. Select a question that you will focus on for your NEA
2. Complete an essay plan for Mrs Neal to review
3. Choose your key historian
4. Select two of your three sources
5. Aim to have completed an introduction to your essay

To support the completion of your NEA you will need to continue to complete your NEA planning booklet. You will also need to use the reading list Mrs Neal has provided in this booklet to research the topic further and develop your line of argument further. Remember to record your notes in the spaces provided in the booklet.

Business Studies Summer Work

What you should have completed by the end of term 6

Business A Level (Mrs Burnett-Smith)

- Notes on External Influences on Business
- Questions 1-9 External Influences on Business
- Burberry PLC (case study questions)
- AO.com 20 Mark exam Practice
- Mock Paper – Section A and Section B (all work emailed and on teams)

Revision of All Key terms and Formula:

- Theme 1 revision Quizlet
- Theme 2 Revision Quizlet
- Formulas Revision Quizlet

Use the links emailed and on teams to access quizlets

Business BTEC (Mr Chilvers & Mrs Burnett-Smith)

UNIT 3 (Mrs Burnett-Smith)

1. Complete all 4 Revision Mat practice sheets for UNIT 3.
2. Use Quizlet links to recap UNIT 3 knowledge of concepts and formulas! V IMP
<https://quizlet.com/join/Jq7N7MwMN>
3. Complete the research project on 'Management and Leadership'

Mr Chilvers:

Summer homework & further reading

Keep up to date with all the latest Business News...this is very important in preparing for Yr 13!

- Follow us on Twitter @HBSbusec to keep up to date with the Business news.
- Keep a scrap book of all the key articles you find – this is a good app <http://en.linoit.com/>

Ensure your understanding of concepts and confidence with calculations of Yr 12 Syllabus

- Use Tutor2u to recap knowledge using the revision videos and quizzes on each topic! <https://www.tutor2u.net/business/topics>
- Use the Calculation Practice Booklet to gain confidence in the use of all Yr 12 formulas (we will be progressing to new, more challenging calculations in Yr13)
- Access our Quizlet page to test your knowledge <https://quizlet.com/class/2931734/>

Use the time to consider your next step.....

Use <http://www.apprenticeshipguide.co.uk/> and <https://www.unifrog.org/> to research different careers/apprenticeships and University Courses!