

Year 10 Revision List for September 2020

Here are the revision topics for each subject you are studying. You may not have learned them in as much detail as usual over the past few months. However, in September (week 3) there will be an assessment week. Your teacher will see if there are any gaps in your knowledge and then show you how to fill these gaps and/or extend your knowledge. You will find this document along with lots of helpful learning resources and all of the work set since March on our school website: <https://www.stmca.org.uk/key-information/closure-guidance/>

Art

- 1 Key points in architecture through history.
- 2 Card construction techniques
- 3 Application and control of a wide range of materials, processes and techniques. EG layering materials, using media that is fit for purpose.
- 4 Observational recording skills

Biology

- B1 Cell Biology
- B2 Organisation of organisms
- B3 Infection and response
- B4 Bioenergetics

Chemistry

- C1 Atomic Structure and the periodic table
- C2 Bonding
- C4 Chemical changes
- C5 Energy changes
- C6 Rate and extent of chemical change
- C7 Organic chemistry
- C8 Chemical analysis
- C9 Chemistry of the atmosphere
- C10 using resources

Revise using Educake, the online Science homework. There are lots of self-marking questions you can do to help your revision.

Computing

e-Safety / Legislation

- using technology safely and responsibly e.g. online privacy, cyberbullying.
- reporting e-safety concerns.
- plagiarism, copyright, intellectual property, copyright and royalty free.

Pre-production Skills

- The purpose and use of mood boards, mind-maps, visualisation diagrams.
- Interpreting a client brief / requirement.
- Interpreting the target audience requirements.
- Plagiarism and Illegal Sharing.
- Version control, naming conventions.

Productivity Software

- The use and purpose of word processing, presentation, spreadsheet and email software.
- Identifying basic features on the ribbon.
- Using basic features.
- Using formulae (=, *, /, +, -)

Binary

- how to convert denary numbers into 8-bit binary numbers and vice versa.
- How to add two 8-bit binary integers

Computer Networks

- What is a computer network?

Computer Hardware

- What is a computer?
- Embedded devices
- Input / Output Devices

Programming / Computational Thinking

- Variables
- Sequence
- Selection
- Iteration
- Abstraction & Decomposition Thinking
- Algorithmic Thinking

English

English Language:

AQA GCSE English Language

Paper One: Explorations in Creative Reading and Writing

Section A: Reading

One literature fiction text

1. Selecting information from a fiction text
2. Supporting ideas with quotations
3. Identifying and commenting on the effect of language techniques, including: simile, metaphor, pathetic fallacy, alliteration
4. Identify and comment on the structure of a text including: what happens at the beginning/ middle/ end? Is it written in chronological order? Where is the change of focus? Is foreshadowing used? What is the effect?
5. Evaluate the effectiveness of a text, providing your own viewpoint

Section B: Writing

Descriptive or narrative writing

1. Select vocabulary and language techniques for effect
2. How to structure your writing; using clear paragraphs
3. Apply a range of sentence structures, considering the effects on the reader
4. Use the correct spellings of familiar words, especially of homophones
5. How to apply a range of punctuation accurately, including ;:!,,"

Revise using GCSEpod, BBC Bitesize and Mr Bruff's YouTube Channel.

French

Expo 3 Unit 3

- Parts of the body
- Illness & remedies
- Staying healthy
- Imperatives (commands)
- Cultural topics – Fete de la musique/Bastille Day

Geography

1. A baseline test
2. Paper 1 – physical geography
3. Paper 2 – Human Geography
4. Paper 3 – skills

Use - <https://www.internetgeography.net/aqa-gcse-geography/>
<https://www.bbc.co.uk/bitesize/examspecs/zy3ptyc>

History

No revision required

Students will be set an early baseline assessment on Paper One topic studied in first 2 weeks of September (Crime and Punishment in the Medieval period)

Skill focus – **change and continuity**

Maths

Students can log into hegarty maths and use their account to search for the topic in the list below.

X1 and Y1 (Y9 teacher – Mr Mohammed and Mrs Pavitt)

- 1) Indices – powers and roots
- 2) Expanding brackets
- 3) Estimating
- 4) Simple ratio
- 5) Simple direct and inverse proportion
- 6) Solving 2 step plus unknown on both sides
- 7) Surface area and volume of cuboid
- 8) Pythagoras
- 9) Calculator skills question
- 10) Complete table and find probabilities

X2 and Y2 (Y9 teacher – Miss Hughes and Mrs Redmond)

- 1) Order of Operations
- 2) Simple standard form
- 3) HCF and LCM by listing
- 4) Basic index laws
- 5) Expanding brackets
- 6) Percentage of amount
- 7) Volume and SA of cuboids
- 8) Reading probabilities from sample space
- 9) Angles in triangle and quadrilateral
- 10) FDP conversion table

X3/X4 and Y3/Y4 (Y9 teacher – Miss Morton, Mrs Banks, Ms Gilbert and Mr Elkin)

- 1) Multiply/Divide by 10,100 and 1000
- 2) Calculator skills question
- 3) Solving simple equations
- 4) Simple substitution
- 5) Order of Operations
- 6) Prime factorisation
- 7) Simplifying/Equivalent fractions
- 8) Rounding
- 9) Long multiplication
- 10) Squares and cubes

Revise using hegarty maths, diagnostic questions and corbett maths. Y10 will have additional resources provided in their last face to face session.

Physical Education

Revise uploaded lessons and resources for LO1 Contemporary issues in sport.

Contemporary issues in Sport learning resources from online lessons and also revision resources.

https://stmca-my.sharepoint.com/:f:/g/personal/knuttall_stmca_org_uk/EtkLw_Jb-6xMnnPz3OAL_j4BhR6HrQk_TMwdDn8l0Gthmw?e=uv1ufN

Physics

P1 Energy
P2 Electricity
P3 Particle model of matter
P4 Atomic Structure
P5 Forces
P6 Waves

Religious Education

See RE Revision Checklist and Summer Project for further details.

Life and Death (Paper 1)

Judaism Beliefs (Paper 3)
Judaism Practices (Paper 3)

Ensure that you focus on learning Sources of Wisdom (e.g. key quotes) - you can use the SOW booklet from the Summer Term to help

Spanish

Mira 2 Unit 6 + technology

- Parts of the body
- Illness & remedies
- Healthy living
- Health issues (vices)
- Technology
- Cultural topic – Festival of San Juan

Technology

Product Design/Textiles

1. Manufacturing processes done in practical's
2. Surface finishes
3. Product analysis
4. CAD advantages and disadvantages
5. Sustainability
6. sketching
7. Interpreting data (reading graphs)
8. Prototyping

Engineering

1. Product analysis
2. Comfort and ergonomics
3. Sustainability
4. Manufacturing processes
5. Design cycle
6. Design development
7. Safety of products

Food

1. Nutrients
2. Nutritional needs and health
2. Food Safety
3. Food labelling, function of ingredient's.