



**Heathcote School
and Science College**
Home of Pearson National Award Winning Teachers

Year 9

**Challenge Week 1:
18/10/2021 - 22/10/2021**

- ◇ **Which subjects will be examined?**
- ◇ **How long will each examination be?**
- ◇ **How should I prepare for these examinations?**

Challenge Week 1 Exams 18/10/21 – 22/10/21

All pupils in Year 9 will be examined in the following subject areas during Challenge Week 1:

- English
- Mathematics
- Science
- Geography
- History
- Art
- ICT
- PIE
- DT
- Modern Foreign Languages (MFL)
- PE

This booklet outlines the length and focus of each examination in Challenge Week 1 (October) so that you know what to expect in each subject and so that you can prepare yourself.

- ◇ Examinations will be held in normal lesson time when you are timetabled for the subject and will be in your usual classroom.
- ◇ When the examination is going to begin the teacher will explain that the class are to remain in 'examination conditions' this means you are to remain in absolute silence and listen carefully to instructions. Do not interrupt instructions - wait until the teacher asks if there are any questions then raise your hand. Failure to adhere to the conditions of the examination may result in disqualification.

- ◇ **Equipment** - Pupils should ensure that they bring the correct exam equipment every day. This includes pens (x2), a sharp pencil, ruler, rubber and a calculator in a clear transparent pencil case. Equipment can be purchased from H123 in advance of Challenge Week for a fee of £15.50 (including calculator). If you need financial support regarding the purchase of examination equipment, please contact the Examinations Officer Mr. Uddin.

- ◇ All phones, smart watches and devices/web enabled sources of information are prohibited during tests and exams and are also banned items in school.

- ◇ Possession of any unauthorised material will lead to disqualification and zero marks for your paper.

- ◇ Pupils will place their bag under their desk when they enter the exam venue and coats will be placed on the back of chairs.

- ◇ This revision booklet **does not** replace Knowledge Organisers – pupils are to use their Knowledge Organisers for revision in addition to the suggested revision tools highlighted in this booklet.

◇

1. English

Number of examinations: 1

Length of examination: 1 hour

This examination will assess pupils' knowledge and understanding of:

- ◇ Poetry studied in year 9 from GCSE Anthology
- ◇ Pupils will answer an essay question about ONE poem studied

Pupils should prepare for this by:

- ◇ Revising the language and structure of the following poems: 'When We Two Parted', 'Neutral Tones', 'Winter Swans'; and 'Letters From Yorkshire'
- ◇ Revise poetic language and structure techniques.
- ◇ Practice PEEAL paragraphs
- ◇ Use BBC Bitesize to revise each poem.

2. Mathematics

Number of examinations: 1

Length of examination: 40 minutes

This examination will assess pupils' knowledge and understanding of:

Foundation

- ◇ Use Order of Operations with Positive and Negative Numbers
- ◇ Simplify Calculations by Cancelling
- ◇ Use Inverse Operations
- ◇ Rounding
- ◇ Multiply and Divide Decimal numbers
- ◇ Estimate Answers to Calculations
- ◇ Use One Calculation to Find the Answer to Another
- ◇ Find Factors and Multiples of Numbers
- ◇ Find the HCF of Two Numbers by Listing
- ◇ Find the LCM of Two Numbers by Listing
- ◇ Find Square Roots and Cube Roots
- ◇ Use the Laws of Indices
- ◇ Use Prime Factor Decomposition for HCF and LCM (Venn Diagrams) Add, subtract, Multiply and divide mixed numbers and fractions.
- ◇ To know and use the laws of indices.
- ◇ Standard Form

Higher

- ◇ Estimation
- ◇ Use Place Value to Answer Questions
- ◇ Write a Number of the Product of its Prime Factors
- ◇ Find and Use the HCF and LCM of Two Numbers
- ◇ Use Powers and Roots in Calculations
- ◇ Use the Index Laws
- ◇ Convert Numbers Between Normal and Standard Form
- ◇ Calculate with Numbers in Standard Form
- ◇ Simplify a Surd
- ◇ Rationalise a Denominator

Pupils should prepare for this by:

- ◇ Using the topic list and '*Mathswatch Clip Number*' to go over the topics covered in class

3. Science

Number of examinations: 1

Length of examination: 30 minutes

This examination will assess pupils' science skills:

- ◇ Unit 9 A – calculating probability and making convincing arguments.
- ◇ Unit 9F – writing in the active and passive voices and calculating percentage loss or gain.
- ◇ Unit 9I – writing with purpose for different audiences and using equations and graphs.
- ◇ Unit 9J – Writing cohesively and rounding numbers

This examination will cover the following science content:

- ◇ Ms Zaman and Ms Kerr's class: Unit 9F - Reactivity
- ◇ Mr Karim's class: Unit 9J – Force fields and electromagnets
- ◇ Ms Le's classes: Unit 9A – Genetics and evolution
- ◇ Ms Mahmood's class: Unit 9I – Forces and motion
- ◇ Ms Ahmed's class: Unit 9F - Reactivity
- ◇ Ms Hodges' class: Unit 9J – Force fields and electromagnets

Pupils should prepare for this by:

- ◇ Recording/revising using their pre-reading materials and knowledge organisers.
- ◇ Using their exercise books to recap facts and skills.
- ◇ Using the revision tasks and exercises in the online links in the pre-reading materials for each unit.

4. Geography

Number of examinations: 1

Length of examination: 50 minutes

Format

- ◇ Section A: The Earth's Spheres (4 marks)
- ◇ Section B: Natural Resources (23 marks)
- ◇ Section C: Case Study- Deepwater Horizon (14 marks)

Each section will have short answer knowledge-based and extended answer questions.

Timing

50 minutes (5 minutes for Section A, 25 minutes for Section B, and 15 minutes for Section C, plus 5 minutes checking time)

This examination will assess pupils' understanding of: *Natural*

Resources (45 marks):

- ◇ What are natural resources?
- ◇ What are the earth's four spheres? (Lithosphere, hydrosphere, biosphere and atmosphere)
- ◇ How are igneous, sedimentary and metamorphic rocks formed?
- ◇ How do rocks become weathered over time?
- ◇ How do humans use rocks as a resource?
- ◇ What is soil?
- ◇ Why is soil important for humans?
- ◇ What are goods and services from the biosphere?
- ◇ What is the distribution of the world's water supplies?
- ◇ How is water managed in the UK?
- ◇ Why is water important for humans?
- ◇ Why is the world so dependent on oil?
- ◇ What are sources of renewable and non-renewable energy?
- ◇ How can we use resources sustainably?

5. History

Number of examinations: 1

Length of examination: 1 hour

Timing

30 minutes on question 1

25 minutes on question 2

History: *Medicine through time*

Question 1: Migration

To be able to explain why there was migration to Britain

- ◇ Religion – Jewish Migration and Huguenots
- ◇ Safety/survival/life improvement – Irish, India, Pakistan
- ◇ Impact of war/battle – Vikings, Romans and World War 2

Question 2: Suffragettes

How were women seen in Victorian/early 20th century England?

What were the arguments for and against women having the vote?

6. Art

Number of examinations: 1

Length of examination: 1 hour

This examination will assess pupils' knowledge and understanding of:

- ◇ Observational drawing
- ◇ How to add tone on a landscape drawing to create depth

Pupils should prepare for this by:

- ◇ Practice drawing landscapes or cityscapes from observation, using dark tones in the foreground, medium tones in the middle ground and light tones in the background to create depth

7. ICT

Number of examinations: 1

Length of examination: 50 minutes

This examination will assess pupils' knowledge and understanding of:

- ◇ Data Representation
- ◇ Units, Numbers, Characters, Images, Sounds and Compression.

Pupils should prepare for this by:

- ◇ To review your Knowledge Organisers.
- ◇ To look at all the lessons on Google classroom.
- ◇ To review homework booklet and work booklet for work complete so far.
- ◇ Pupils can also use this link to revise =
<https://www.bbc.co.uk/bitesize/topics/zxnfr82>

8. PIE

Number of examinations: 1
Length of examination: 40 minutes
This examination will assess pupils' knowledge and understanding of: Keeping Safe unit looking at topics around being healthy and safe – anti smoking, drugs, alcohol, peer pressure, physical and mental health and vaping
Format: Pupils will have: 8 x 1 mark short questions 4 x 2 mark questions 1 x 4 marker question ...followed by a reflection task where they will share their views and opinions. Totalling in 20 marks

9. D&T

Number of examinations: 1

Length of examination: 50 minutes

This examination will assess pupils' knowledge and understanding of:

- ◇ Layout and format as a critical approach
- ◇ Linear design and the need to achieve impact in display work
- ◇ Content and the importance of ensuring it is concise
- ◇ Carefully produced minimal graphics that have impact
- ◇ Presentations and their personality
- ◇ The importance of capturing personal interest

Pupils should prepare for this by:

- ◇ Researching popular brand types
- ◇ Watching YouTube videos of impactful advertisement campaigns
- ◇ Discuss the pros and cons of existing advertisements
- ◇ Practice and develop a drawing style for bottle containers
- ◇ Make note of the catchy slogans used in advertising today

10. Modern Foreign Languages

Number of examinations: 1

Length of examination: 50 minutes

This examination will assess pupils' knowledge and understanding of:

- ◇ Pupils will be tested on the topic 'My town/ city'.
- ◇ Content includes places in a town, the correct gender and articles, key structures and infinitive verbs
- ◇ Pupils need to show they can write accurately in the language and translate into English

Pupils should prepare for this by:

Reviewing class work and referring to their Knowledge Organisers.

11. PE

Number of examinations: 1

Length of examination: 30 minutes (theory exam)

This examination will assess pupils' knowledge and understanding of:

- ◇ The purpose and importance of a warm up and cool down and the effect they have on performance and the human body.
- ◇ Phases of a warm-up and their significance in preparing for physical activity.
- ◇ Types of activities included in a warm up and why.
- ◇ Understand the different muscles types; voluntary and involuntary.
- ◇ Location and role of specific muscles relating to sport and physical activity; gastrocnemius, tricep, bicep, quadriceps, hamstrings, deltoids.

- ◇ Functions of the skeleton; protection, muscle attachment, movement etc.
- ◇ Identify bone classification; long, short, flat, irregular.
- ◇ Identify key bones; clavicle, radius, ulna, tibia, fibula, humerus, femur etc.

Pupils should prepare for this by:

Review of the theoretical content covered in the previous academic year.