

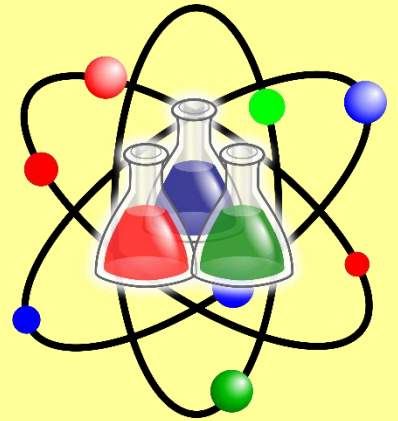
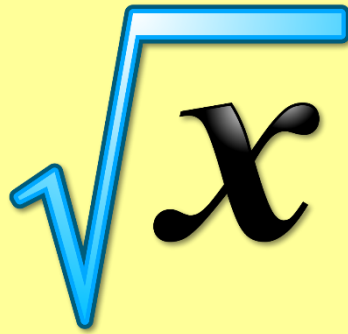
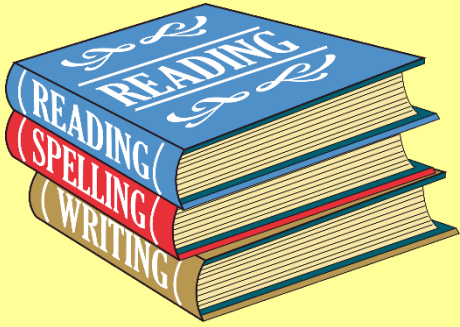
Grays Convent High School

Year 10

Curriculum Newsletter
Summer Term (A) - 2024



Inspiring Ambition,
Achieving Excellence



Welcome to our Summer Term (A) Curriculum Newsletter. The departments that teach your daughter have contributed to the newsletter to give you information about what you can expect her to be studying this term at Grays Convent High School.

English

This half term, students will continue their studies of the GCSE Poetry Anthology and revise over the topics covered so far this year in preparation for the Year 10 mock examinations. This will include revisiting the 19th Century Fiction and Imaginative Writing Paper and revising 'Jekyll and Hyde'.

Maths

Set 1 are working on Further Statistics which involves Cumulative Frequency, Box Plots and Histograms.

Set 2 and 3 are studying a unit on Multiplicative Reasoning. This involves growth and decay, compound measures and some ratio problems.

Set 4 and 5 are working on Probability.

Set 6 are working on Ratio and Proportion.

RE

Jewish practices:

8.1 Public acts of Jewish worship. The synagogue.

8.2 The written law (Tenakh) and the oral law (Talmud), and their study, use and significance in daily life, e.g. Dietary laws and their significance, including different Jewish views about their importance: kosher and trefah.

8.3 Private prayer.

8.4 The Shema and Amidah.

8.5 Ritual and ceremony – Brit Milah, Bar and Bat Mitzvah, Marriage, Mourning rituals, Funerals.

8.6 Shabbat (Sabbath).

8.7 Festivals and their importance for Jews in Great Britain today, including the origins and meaning of: Rosh Hashanah and Yom Kippur, Pesach (Passover), Shavuot, Sukkot.

8.8 Features of the synagogue – Ark, Eternal Light, Bimah.

Science

During summer, students will study the following units based on [Triple Science Content linked to Kerboodle](#):

B7 Non-communicable diseases

1. Non-communicable diseases
2. Cancer- tumours, causes and treatment
3. Smoking and the risk of disease
4. Diet exercise and disease- obesity and type two diabetes
5. Alcohol and other carcinogens- radiation

C7 Energy Changes

1. Exo and endothermic
2. Using energy transfers- warming up and cooling down
3. Reaction profiles
4. Bond energy Calculations
5. Chemical cells and batteries
6. Fuel cells

P7 radioactivity

1. Atoms and radiation
2. Discovery of the nucleus
3. Changes in the nucleus
4. More about alpha, beta, and gamma
5. Activity and half life
6. Nuclear radiation in medicine
7. Nuclear Fission
8. Nuclear fusion
9. Nuclear issues

Art

Mock GCSE Project – Topic TBC

Introduction to the GCSE Assessment criteria as part of a full project.

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AO3 - Record ideas, observations and insights relevant to intentions as work progresses.

AO4 - Present a personal and meaningful response that realises intentions and demonstrates understanding of visual language.

Realization of a final piece will made in the walking talking mock for which 5 hours are assigned.

Computer Science

Year 10 (9-1) OCR J277 Computer Science

This half term, students will study:

1.3.1 Networks and topologies

- Types of networks:
 - LAN (Local Area Network)
 - WAN (Wide Area Network)
- Factors that affect the performance of networks
- The different roles of computers in a client-server and a peer-to-peer network

- The hardware needed to connect stand-alone computers into a Local Area Network:
 - Wireless access points
 - Routers
 - Switches
 - NIC (Network Interface Controller/Card)
 - Transmission media
- The Internet as a worldwide collection of computer networks:
 - DNS (Domain Name Server)
 - Hosting
 - The Cloud
 - Webservers and Clients
- Star and Mesh network topologies

1.3.2 Wired and wireless networks, protocols and layers

- Modes of connection:
 - Wired
 - Ethernet
 - Wireless
 - Wi-Fi
 - Bluetooth
- Encryption
- IP addressing and MAC addressing
- Standards
- Common protocols including:
 - TCP/IP (Transmission Control Protocol/Internet Protocol)
 - HTTP (Hyper Text Transfer Protocol)
 - HTTPS (Hyper Text Transfer Protocol Secure)
 - FTP (File Transfer Protocol)
 - POP (Post Office Protocol)
 - IMAP (Internet Message Access Protocol)
 - SMTP (Simple Mail Transfer Protocol)
- The concept of layers

Design Technology

Links to maths – be able to apply the following mathematical skills:

- **Arithmetic and numerical computation**
 - ✓ Decimals, ratios, fractions and percentages
 - ✓ Calculate surface area and volume
- **Handling data**
 - ✓ Presentation of data, diagrams, bar charts and histograms
- **Graphs**
 - ✓ Plot, draw and interpret appropriate graphs
 - ✓ Translate information between graphical and numerical form
- **Geometry and trigonometry**
 - ✓ Use angular measures in degrees
 - ✓ Be able to draw 2d and 3d versions of 3d objects
 - ✓ Calculate areas of triangles and rectangles
 - ✓ Calculate the surface areas and volumes of cubes

Links to science – know and apply the following scientific knowledge and skills:

- **Use scientific vocabulary, terminology and definitions**
 - ✓ Quantities, units and symbols
 - ✓ SI units
 - ✓ Characteristics of metals and non-metal
- **Life cycle assessment and recycling**
 - ✓ Basic principles of life cycles assessment of materials or products
- **Using materials**
 - ✓ Conditions that cause corrosion and the process of corrosion and oxidation
 - ✓ The composition of some alloys in relation to their uses
 - ✓ The physical properties of materials and how materials are selected for their uses
 - ✓ Main energy sources available for use on Earth – renewable and non-renewable
 - ✓ The action of forces – gears, levers and the effects of forces

Assessment

- CGP GCSE AQA Design and Technology revision and practice: end of unit tests
- **EXAM 3 and Past papers**

Practical

Tools and materials testing, model making

Drama

Component 3: Students will answer questions on a studied set text (I Love You Mum, I Promise I Won't Die by Mark Wheeler) and write a review of a live theatre performance they have seen during the course. Year 10 will begin to study the text I Love You Mum, I Promise I Won't Die by Mark Wheeler in preparation for their walking talking mock.

Food Preparation and Nutrition

- Factors influencing food choice: ethical & moral. Beliefs: vegetarian
- Food science: heat transfer, gelatinisation, dextrinisation, caramelisation, aeration, emulsification, shortening, coagulation, foam formation and acid denature

Practical Lessons:

- Victoria sponge cake
- Quiche Lorraine
- Lemon meringue pie (dextrinisation of pastry)

Assessment:

- Analyse & evaluate (A04)
- Test - Section B – Topic 7 -25

French

En vacances: Learning for Year 10 this half-term will involve the GCSE Topic “On holiday”, about going abroad, holiday experiences and plans. The grammar emphasis will be on the future and conditional tenses, and the past tense of reflexive verbs. Pupils will resume their weekly vocabulary learning sessions and will work on how to proofread their written work using the material at their disposal (verbs and determiner tables, etc.). After taking their exams, their teacher will give them the opportunity to catch up on missing key learning by adapting as necessary the teaching plans, before accessing Year 11. Pupils will continue their weekly vocabulary learning sessions and will learn how to use a verb table to check their verbs tenses, and eventually spot patterns and memorise the main irregular verbs.

Geography

Year 10 students continue their GCSE studies on the Urbanising world. Once completed, they will move on with a field study on rivers. It is hoped that they will undertake a field study to accompany this topic in Epping Forest later in the year.

History

Students will be working on their second GCSE area of study, Early Elizabethan England 1558 – 1588. Focus will be on Elizabeth’s accession to the throne and the challenges she faced. Students will also look at life at the time of Elizabeth for rich and poor before covering her Religious Settlement.

Media Studies

This half term we will move onto our Advertising Close Study Products.

Television advertisement for Galaxy chocolate (2014) – Advertising and Marketing

This advert is of cultural significance because of its extensive use of CGI and its intertextual references to a dead celebrity. It also provides extensive opportunities for analysis using techniques and concepts drawn from the study of Media Language and Media Representations.

What will I study?

Key Questions and Issues. This advertisement relates to the theoretical framework by providing a focus for the study of:

- Media Language. Semiotic analysis of this product will help develop your understanding of how codes and conventions are used to communicate meaning. How would you describe the narrative structure of the advert? How useful are narrative theories (such as Propp) in the analysis of the Galaxy advert? What elements of intertextuality can you identify? Which techniques of persuasion are used to promote the product?

- Media Representations of place, celebrity persona, the product (Galaxy chocolate), a historical period, nostalgia, masculinity and femininity, class and age. How are these representations constructing a version of reality? Identify the stereotypes used and explain their function. How are choices made by the producers of this advert in order to convey particular viewpoints, messages, values and beliefs? What factors will affect the audience's interpretations of these representations?
- Social and cultural contexts. The product raises issues of the link between advertising, identity and consumerism within a broadly consumer culture. Comparing the Galaxy advert with historical examples (e.g. early television adverts for confectionery) will help you understand the powerful influence of changing social values and beliefs on advertisements.

NHS Blood and Transplant online campaign video Represent featuring Lady Leshurr – Advertising and Marketing

This is a product that targets a niche audience with a clear persuasive message. It incorporates the conventions of music video and illustrates many aspects of media language and media representations as theoretical framework areas. There are rich and challenging opportunities for analysis here.

What will I study?

This advertisement relates to the theoretical framework by providing a focus for the study of:

- Media Language. What is the message of this product? How are the chosen codes and conventions helping to communicate this message? Skills of semiotic analysis will help you understand this product. What is the genre of Represent? Are there any elements of intertextuality or hybridity? How would you describe the narrative structure of this product? How is narrative being created to construct a point of view?
- Media Representations. Represent offers the opportunity to analyse a range of representations – ethnicity, masculinity, femininity, age, class, ability/disability and place amongst others. How effective is the use of stereotypes in Represent? How do theoretical perspectives on representation including processes of selection, construction and mediation help with the understanding of this product? What factors affect the audience interpretations of the representations offered in this product?
- Social and cultural contexts. The NHS Blood and Transplant marketing campaign Represent featuring Lady Leshurr is directly aimed at the BAME audience in an attempt to boost the number of blood donors from this section of society. This product raises issues about the social function of some promotional products and the impact they can have on behaviour, attitudes and beliefs.

OMO Print advert from Woman's Own magazine, 5 May 1955

This product provides good opportunities for developing and applying analytical skills drawn from a study of Media Language and Media Representations. Studying this product in its historical context will help you to understand just how important the social and cultural contexts can be in the construction of media products.

What will I study?

- **Media Language.** What are the connotations and denotations of the various signs that make up this advertisement? How do elements such as layout and design, typography, body language and use of language contribute to the meaning of the product? Messages and values are clearly different to those found in modern advertisements, but how are these messages and values communicated by the signs, codes and conventions used in this advertisement? How effectively is media language used to create a persuasive message? How does the combination of elements in the advertisement contribute to a narrative? How does the media language used here position the target audience and how does today's reader interpret these signs differently?
- **Media Representations.** You will need to study the representations of gender here; particularly femininity, but also the implied representation of masculinity. To what extent does the product make use of a stereotype or stereotypes? What is unfamiliar and what is familiar about the 1950s world that is re-presented here? Discuss your own interpretations of the representations here. How are these interpretations influenced by your own experiences and beliefs?
- **Historical, social, cultural and political contexts.** You should discuss the ways in which media language and representations reflect the social, historical and cultural contexts in which this advertisement was produced. Does this help you to make sense of the contexts influencing today's advertisements? Useful contrasts can be drawn with the two other advertising and marketing Close Study Products. Have political changes played a role in the developments that have made this advertisement seem outdated and unusual, especially in terms of gender representation?

Music

Music for Ensemble

Students will explore a variety of music written for ensemble, including musical theatre, jazz ensembles, chamber music and others. Students will develop their understanding of more complicated textures and how these are applied in a variety of ensemble settings. Students will develop a more thorough understanding of the use of harmony and tonality and improve their ability to accurately discuss these verbally and in writing. Students will develop their ability to identify a variety of different instruments with confidence.

During this half-term, students will be expected to commence on the writing of their first GCSE Music Composition, which will be completed in Year 11 (this is referred to officially as "Free Composition" or "Composition Two" by Eduqas), as well as discuss and begin to plan GCSE Music Ensemble Performances for the Winter term.

Photography

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PSHEC

Students will be learning about the following:

- Balancing activities to improve mental well-being.
- Physical health, the barriers and strategies to improve.

PE

Participation

Volleyball

In this block of learning pupils will be learning the basics of Volleyball, how to move the ball (dig, set, spike) and how to rotate in match play. There will also be opportunity to try Paralympic sitting volleyball.

Practical

In Athletics Year 10 will build upon techniques learnt in KS3 and implement these, along-a-side competition rules. Pupils will measure and time their throws and runs, using their mathematical skills to record their results. Pupils will also try to officiate events and be able to recognise foul throws/jumps. The aim by the end of the unit is to be able to self-run a small inter-class sports day.

Performance

In Rugby Year 10 will use the knowledge gained in KS3 to play full contact rugby. In this block of learning time will be spent on learning line out lifts/scrum techniques and implementing these in game play.

PE (GCSE)

Pupils will continue to learn the paper one content, moving through unit three 'Physical training'; components of fitness, and fitness testing. In practical we will spend three more weeks on Rugby leading into an assessment and then we will move onto athletics, where pupils will need to specialise in two events to be assessed in.

CNAT:

Pupils are now working on unit R187: Practical performance and leadership. Completing:

Task 3 – Organising and planning a sports activity session

Task 4 – Leading a sports activity session

Task 5 – Reviewing your own performance in planning and leading a sports activity session

This will hopefully be done by Friday 10th of May - so I can submit work to the exam boards by the 14th of May. Hard work required!

Spanish

Pupils will be working on the topic of interests and hobbies. They will learn how to explain what they enjoy doing or not, will develop their use of adjectives, and consolidate a few tenses (several present, past and future tenses).

Textiles

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