



Scott

Scott Medical and Healthcare College

*Care to learn
Learn to care*

Revision List Year 10

January 2024

Top 10 tips to support your child with revision

- **Being a role model** - Help support them with revision by asking them questions, reading their notes and listening to them
- **Help them set goals** - Encourage them to keep their goals planner visible – e.g. printed and displayed on their bedroom wall. Help focus them and talk to them about their goals regularly
- **Keep them active** - Encourage them to keep active on a daily basis
- **Healthy eating** - Encourage them to eat breakfast everyday Eating the right food and drink can energise your system, improve alertness and sustain your child through the long exams
- **Time out** - Encourage them to build in opportunities to take some time out every week, away from study
- **Sleep patterns** - Young people need between 8 – 9 hours sleep per night
- **Unplugging** - Encourage them to unplug from technology everyday. Help them switch off from technology at least 30 mins- 1 hr before going to sleep
- **Staying cool & calm** - Promote a balance of their academic studies & other activities during the week
- **Belief** - Give them positive reinforcement
- **Be supportive**

English

Type of assessment

'A Christmas Carol' Exam Essay

Length of assessment

50 minutes

- I can recall the plot of A Christmas Carol.
- I can recall the themes in A Christmas Carol.
- I can recall key quotations in A Christmas Carol.
- I can recall key characters in A Christmas Carol.
- I can recall the key context of A Christmas Carol.
- I can analyse Dickens' language in key extracts.
- I can understand Dickens' allegorical message.
- I can use a thesis to introduce an essay.
- I can structure an essay response.
- I can conclude an essay effectively.

Maths FOUNDATION

Type of assessment

50 Mark Recall Assessment, including vocab, fundamental topics and content from Half term 1/2

Length of assessment

One lesson

- I can convert FDP
- I can work with fractions
- I can complete the 4 operations with fractions
- I can work with percentages
- I can work with ratio
- I can work with direct proportion
- I can work with powers, roots, index laws
- I can convert between SIF and ordinary numbers and use to calculate problems
- I can use basic algebraic concepts to notate and simplify expressions and equations
- I can substitute into expressions and equations
- I can expand and factorise bracket(s)
- I can solving equations
- I can rearrange formula to change the subject of an equation
- I can find missing angles in polygons

Maths HIGHER

Type of assessment

50 Mark Recall Assessment, including vocab, fundamental topics and content from Half term 1/2

Length of assessment

One lesson

- I can use and apply all index laws to numerical and algebraic values
- I can read and use standard form for all types of numbers to solve problems
- I can use and apply the concepts of bounds, accuracy and truncation to solve problems
- I can apply all four operations to fractions and mixed numbers to solve problems
- I can solve percentage problems in context
- I can apply ratio concepts to solve problems
- I can use numerical and algebraic methods to solve direct and inverse proportion problems
- I can calculate with surds
- I can work with sequences
- I can expand and factorise brackets and simplify algebraic terms
- I can rearrange all formulae to change the subject
- I can solve any type of linear equation and simple algebraic fractions
- I can solve linear simultaneous equations using any method
- I can solve compound measure problems involving speed, density and pressure.

Biology

Type of assessment

Mini Mock on topics covered so far this year.

30 Marks - Completed in 1 lesson.

Length of assessment

One lesson

- Describe the process of diffusion and explain the factors that affect the rate of diffusion
- Describe how to investigate the effect of changing concentration on the rate of osmosis in plant tissue.
- Compare the processes of diffusion, osmosis and active transport.
- Explain how the functions of specialised plant cells
- Explain the effects of temperature, light intensity, carbon dioxide concentration, and the amount of chlorophyll on the rate of photosynthesis.
- Explain how light intensity, humidity, air movement and temperature affect the rate of transpiration.
- Describe the roles played by different hormones in plants
- Explain the importance of enzymes in digestion
- Describe the ways to test for different food groups in food.
- Describe how to investigate the effect of pH on the enzyme amylase.
- Compare aerobic and anaerobic respiration.
- Explain how the human body responds to exercise.
- Describe how blood flows through the heart and circulatory system.
- Describe the consequences of CHD on the functioning of the heart.

Chemistry

Type of assessment

Mini Mock on topics covered so far this year.

30 Marks - Completed in 1 lesson.

Length of assessment

One lesson

- Define polymerisation and represent polymers using diagrams
- Describe the processes of addition polymerisation and condensation polymerisation
- Compare endothermic and exothermic reactions
- Describe the changes in energy on the profiles in terms of the energy stored in bonds
- Describe the trends and properties of elements in groups 1, 7 and 0.
- Explain the order of reactivity using results from reactions of the metals with dilute acid and water.
- Describe and explain the different ways metals can be obtained or extracted.
- Describe the process of electrolysis of molten and aqueous substances.
- Identify gases using gas tests.
- Compare rechargeable and non-rechargeable batteries
- Describe and explain the method used to make a pure, dry salt sample.
- Write equations for neutralisation reactions

Physics

Type of assessment

Mini Mock on topics covered so far this year.

30 Marks - Completed in 1 lesson.

Length of assessment

One lesson

- Describe the uses of radio waves and microwaves.
- Describe transmission, absorption and reflection
- Construct ray diagrams showing reflection
- Describe the range and limitations of human hearing
- Describe how the ear detects sound
- Describe examples of applications of waves in medicine and technology
- Describe applications of different types of lens
- Explain why objects appear to be different colours
- Explain how objects become statically charged.
- Describe how current and potential difference acts in series and parallel circuits.
- Explain how the total resistance in a circuit will change with the addition or removal of resistors in series and parallel.
- Explain the relationship between resistance and temperature in a filament lamp
- Explain what happens to the resistance in a circuit as the length of a wire is increased.

- Use the equation $Q = I \times t$ to calculate charge, current and time
- Calculate power using the equation $P = V \times I$ and $P = I^2 \times R$
- Explain the use of step up and step down transformers.
- Explain the safety features of a three pin plug.

History

Type of assessment

Henry and His ministers exam

Length of assessment

50 minutes

- Henry in 1509
- Tudor England in 1509
- Policies before 1515
- Rise of Wolsey
- Wolsey's domestic policies
- Wolsey's Foreign policies
- Reasons for and difficulties in getting an Annulment
- Fall of Wolsey
- Rise of Cromwell
- Break with Rome up to and including 1534

Geography

Type of assessment

Past Paper - Paper 2 Section A Exam A mix of short answers and extended writing (one 9 marker)

Length of assessment

50 minutes

- Patterns of urbanisation
- Factors of urbanisation
- Megacities
- Introduction to Rio de Janeiro
- Opportunities in Rio
- Environmental challenges of urban growth
- Feed forward
- Economic and social challenges that urban growth
- Favelas
- Urban planning: Favela Barrio Project
- Bristol: Major UK city and internationally important.
- Impact of migration on Bristol
- Social and economic opportunities in Bristol
- Social and economic challenges in Bristol
- Urban greening
- Environmental challenges in Bristol (Dereliction and urban sprawl)
- Waste management in Bristol
- Urban regeneration (Temple Quarter)
- Urban sustainability
- Sustainable living in Freiburg
- Sustainable traffic management

Spanish

Type of assessment

Speaking (role play - 10 marks), Reading (30 marks), Listening (20 marks), Writing (44 marks)

Length of assessment

2 lessons

- Talking about free time activities, TV [programs and films.
- Saying what you usually do in your free time in the present tense
- Saying what you used to do in your free time in the imperfect tense.
- Saying what you did recently and what inspires you using the preterit and perfect tenses.

PE

Type of assessment

Knowledge recall test 50 questions

Length of assessment

One lesson

- Types and provision of sport and physical activity for different types of participant
- Types and needs of sport and physical activity participants
- Barriers to participation in sport and physical activity for different types of participant
- Methods to address barriers to participation in sport and physical activity for different types of participant
- Different types of sports clothing and equipment required for participation in sport and physical activity
- Different types of technology and their benefits to improve sport and physical activity participation and performance
- The limitations of using technology in sport and physical activity
- Planning a warm up
- Adapting a warm-up for different categories of participants and different types of physical activities

Drama

Type of assessment

REAL Comp 1 Assessment on 'HOPE' - which will involve a written coursework document plus practical engagement in workshop lessons.

Length of assessment

All lesson in January - March- 10 hours minimum

- I can devise drama
- I can prepare improvisation
- I can spontaneously improvise
- I can perform a range of different characters
- I can interpret script for performance
- I understand how semiotics impact performance
- I can work with a range of others
- I can identify key aspects of naturalistic performance style
- I can identify key aspects of a physical theatre performance style
- I can identify key aspects of an epic theatre performance style
- I can interpret script in performance
- I understand a range of roles within the performing arts and can elaborate on their responsibilities and skills
- I can describe a range of genres
- I can discuss a range of staging formats
- I can describe a range of narrative structures
- I can evaluate the work of self and others
- I can perform using a range of drama techniques

Psychology

Type of assessment

Exam builder, exam questions

Length of assessment

45 minutes

Topic 11: Research methods – How do you carry out psychological research?

- 11.1.1 Be able to identify:
 - a. an independent variable (IV)
 - b. a dependent variable (DV)
 - c. extraneous variables, including
 - (i) situational variables
 - (ii) participant variables”
- 11.1.2 Understand the influence of extraneous variables and suggest possible ways to control for them, including:
 - a. use of standardised procedures
 - b. counterbalancing
 - c. randomisation
 - d. single-blind techniques
 - e. double-blind techniques”
- 11.1.3 Be able to write a null hypothesis
- 11.1.4 Be able to write an alternative hypothesis
- 11.1.5 Methods of sampling, including strengths and weaknesses of each sampling method:
 - a. understand target population samples
 - b. understand random sampling
 - c. stratified sampling
 - d. volunteer sampling
 - e. opportunity sampling”

- 11.1.6 Understand experimental and research designs, including strengths and weaknesses:
 - a. independent measures
 - b. repeated measures
 - c. matched pairs”
- 11.1.7 Understand the reliability and validity of the following when analysing the planning and conducting of research procedures:
 - a. sampling methods
 - b. experimental designs
 - c. quantitative methods
 - d. qualitative methods”
- 11.1.8 Understand ethical issues in psychological research and how to deal with ethical issues, including:
 - a. informed consent
 - b. deception
 - c. confidentiality
 - d. right to withdraw
 - e. protection of participants”
- Understand research methods, including the features, strengths and weaknesses of the following, and the types of research for which they are suitable:
 - 11.1.9 laboratory experiment
 - 11.1.10 field experiment
 - 11.1.11 natural experiment
 - 11.1.12 interview, including
 - a. structured
 - b. semi-structured
 - c. unstructured
 - 11.1.13 questionnaire, including
 - a. closed-ended questions to elicit quantitative data
 - b. open-ended questions to elicit qualitative data
 - 11.1.14 correlation
 - 11.1.15 case study
 - 11.1.16 observation”

- 11.2.1 Arithmetic and numerical computation:
 - a. recognise and use expressions in decimal and standard form
 - b. estimate results
 - c. use an appropriate number of significant figures”
- 11.2.2 Be able to understand and use, including calculations:
 - a. mean, and finding arithmetic means
 - b. median
 - c. mode
 - d. ratios
 - e. fractions
 - f. percentages
 - g. range as a measure of dispersion
 - h. know the characteristics of normal distributions”
- 11.2.3 Be able to:
 - a. construct and interpret frequency tables and diagrams
 - b. construct and interpret bar charts
 - c. construct and interpret histograms
 - d. construct a scatter diagram
 - e. use a scatter diagram to identify a correlation between two variables
 - f. translate information between graphical and numerical forms
 - g. plot two variables from experimental or other data and interpret graphs”
- 11.2.4 Understand, and know the difference between:
 - a. primary data
 - b. secondary data”
- 11.2.5 Understand, and know the difference between:
 - a. qualitative data
 - b. quantitative data”
- 11.3.1 Understand ethical issues in psychological research, including:
 - a. know the term ‘ethical issue(s)’
 - b. use content, theories, and research drawn from the compulsory topics (Topics 1, 2, 3, 4, 5) to explain ethical issues in psychological research”

Topic 5: Social influence - how do others impact our behaviour?

- **Understand the aims, procedures, and findings (results and conclusions), strengths and weaknesses of: 5.2.2 Haney, Banks, and Zimbardo (1973) A Study of Prisoners and Guards in a Simulated Prison**
- **Understand the term conformity and the reasons for conformity**

