Scott

Scott Medical and Healthcare College

Care to learn
Learn to care

Revision List
Year 10

June 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
Mock exams: English Language Paper 1, English Language Paper 2, English Literature Paper 1

Length of assessment
1 hour and 45 minutes x 3

- I can recall the plot of Macbeth.
- I can recall the themes in Macbeth.
- I can recall key quotations in Macbeth.
- I can recall key characters in Macbeth.
- I can recall the key context of Macbeth.
- 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 recall the skills required for the language papers.
- I can memorise my exam-ready story and apply it to different images.

Maths FOUNDATION

Type of assessment
Full GCSE Exam Series (P1 Non Calc, P2 Calc, P3 Calc)

Length of assessment
3 x 90 minute papers

- Ordering positive integers
- Ordering decimals
- Ordering negative numbers
- Adding and subtracting positive integers
- Multiplying and dividing positive integers
- Adding and subtracting negative numbers
- Multiplying and dividing negative numbers
- Adding and subtracting decimals
- Multiplying and dividing with place value
- Multiplying and dividing with decimals
- Order of operations
- Prime numbers, prime factorisation
- Factors, multiples, HCF and LCM
- Powers and roots
- Using standard form
- Calculating with standard form
- Equivalent fractions and simplifying fractions
- Mixed numbers and improper fractions
- Ordering fractions

- Addition and subtraction of fractions
- Multiplication and division of fractions
- Converting and ordering fractions, decimals and percentages
- Fractions of amounts
- Percentages of amounts
- Percentage change
- Reverse percentages
- Simple interest
- Rounding
- Rounding to significant figures
- Estimating answers
- Value for money
- Algebraic expressions
- Collecting like terms
- Substitution
- Expanding brackets
- Factorising expressions
- Index laws
- Changing the subject
- Coordinates
- Midpoints
- Plotting straight line graphs
- Equations of straight line graphs
- Parallel lines
- Distance-time graphs
- Quadratic graphs
- Linear equations

- Quadratic expressions and equations
- Linear sequences
- Other sequences
- Simplifying ratios
- Sharing amounts in a ratio
- Converting between ratios, fractions and percentages
- Direct proportion
- Inverse proportion
- Proportion graphs
- Units of measure: Length, Mass and Capacity
- Units of measure: Time
- Units of measure: Area
- Currency conversion
- Conversion graphs
- Compound units: Speed
- Properties of 2D shapes
- Properties of 3D shapes
- Nets of 3D shapes
- Angles: Measuring, Drawing and Estimating
- Angle on a line and about a point
- Vertically opposite angles
- Angles on parallel lines
- Angles in a triangle
- Combining angle facts
- Angles in a quadrilateral
- Angles in polygons
- Bearings

- Translations
- Reflections
- Enlargements
- Rotations
- Congruence
- Area and perimeter of simple shapes
- Area of triangles, parallelograms and trapeziums
- Circles
- Circumference
- Circle area
- Surface area
- Volume of cuboids
- Volume of prisms and cylinders
- Similar shapes
- Scale diagrams
- Probability of single events
- Experimental probability
- Expected outcomes
- Listing elements in a set
- Probability from Venn diagrams
- Frequency trees
- Sample space diagrams
- Tree diagrams
- Collecting data, frequency tables
- Two-way tables
- Bar charts
- Pictograms

- Pie charts
- Stem and leaf diagrams
- Mode
- Mean
- Median
- Range
- Choosing averages
- Scatter graphs
- Probability scale

Maths HIGHER

Type of assessment
Full GCSE Exam Series (P1 Non Calc, P2 Calc, P3 Calc)

Length of assessment
3 x 90 minute papers

- Calculating with roots and fractional indices
- Converting recurring decimals to fractions
- Surds
- Rationalising the denominator
- Error intervals
- Expanding triple brackets
- Operations with algebraic fractions
- Factorising quadratic expressions: ax^2+bx+c
- Simplifying algebraic fractions
- Factorising to solve quadratics equations
- Using the quadratic formula
- Completing the square to solve quadratics
- Quadratic equations in context
- Quadratic simultaneous equations
- Index laws
- Equation of a straight line: Perpendicular lines
- Quadratic graphs: Turning points
- Quadratic simultaneous equations on graphs
- Exponential graphs

- Exponential growth and decay problems
- Trigonometric graphs
- Graph transformations
- Velocity-time graphs
- Rate of change graphs
- Estimating gradient from a curve
- Estimating area under a curve
- Equation of a circles and tangents
- Linear inequalities as graph regions
- Quadratic inequalities
- Functions
- Recurrence relations
- Quadratic sequences
- Iteration and numerical methods
- Algebraic proof
- Algebraic direct and inverse proportion
- Compound units: Density problem solving
- Congruence proofs
- Enlargements
- Describe combined transformations
- Circle theorems: Angles inside a circle
- Circle theorems: Tangents and chords
- Circle theorems problems
- Prove circle theorems
- Volume of frustums
- Volume: Problem solving
- Similar Shapes: Area and volume

- Pythagoras' Theorem in 2D and 3D
- Right-angled trigonometry: Problem solving
- 3D trigonometry
- The area rule
- Sine rule
- Cosine rule
- Trigonometry and bearings
- Vectors problems
- Product rule for counting
- Conditional probability
- Probability from Venn diagrams
- Averages
- Cumulative frequency diagrams
- Box plots
- Frequency polygons
- Histograms
- Capture-recapture

Biology

Type of assessment
Biology Mock paper 1 - Foundation or Higher

Length of assessment
1 hour and 45 minutes

- Biology: Cells, organs and tissues
- Biology: Cell transport
- Biology: Communicable and non-communicable diseases
- Biology: Body systems - digestive system
- Biology: Body systems - circulatory system
- Biology: Enzymes
- Biology: Respiration (aerobic and anaerobic)
- Biology: Photosynthesis
- Biology: Monoclonal antibodies

Chemistry

Type of assessment
Chemistry Mock paper 1 - Foundation or Higher

Length of assessment
1 hour and 45 minutes

- Chemistry: Atomic structure
- Chemistry: Transition metals
- Chemistry: Nanoparticles and bulk materials
- Chemistry: Relative atomic mass, moles, yield and concentration
- Chemistry: Periodic table and its history
- Chemistry: Fuel cells
- Chemistry: Properties of group 1, 0 and 7 elements
- Chemistry: Ionic bonding and ionic properties
- Chemistry: Covalent bonding and covalent properties
- Chemistry: Metallic bonding and metallic properties
- Chemistry: Acids and alkalis
- Chemistry: Electrolysis
- Chemistry: Extracting metals
- Chemistry: Reactivity of metals
- Chemistry: Exothermic and endothermic reactions

Physics

Type of assessment
Physics Mock paper 1 - Foundation or Higher

Length of assessment
1 hour and 45 minutes

- Physics: Energy stores and transfers
- Physics: Energy resources (renewable and non-renewable)
- Physics: Electric circuits
- Physics: Resistance in circuits
- Physics: National grid and electricity in our homes
- Physics: Particle model of matter
- Physics: Atoms and isotopes
- Physics: Properties of radioactive substances
- Physics: Fission and Fusion
- Physics: Static electricity

History

Type of assessment
Paper 2

Length of assessment
1 hour 50 minutes

- Henry and Wolsey
- Henry and the changes to religion
- Henry and Cromwell
- Grand Alliance and Wartime conferences
- Development of the Cold War 1945-8
- Berlin Blockade and Airlift
- Hungary
- Berlin Ultimatum and the wall
- Cuba
- Czechoslovakia and Prague Spring
- Consolidation of Power
- Henry in 1509
- Rise of Wolsey

Geography

Type of assessment
MOCK Exam Paper 1 (Physical Geography)

Length of assessment
1 hour 30 minutes

- Tectonic Hazards
- Weather Hazards
- Climate Change
- Ecosystems
- Tropical Rainforests
- Cold Environments
- Coasts
- Rivers

Spanish

Type of assessment
Mock reading, listening, writing and speaking papers

Length of assessment
3 papers in exam conditions (see mock timetable) + speaking in class

- Theme 1 - identity & culture: my family, what makes a good friend, what I do in my free time, celebrations)

- Theme 2 - My local area: where I live, what I can do in my region, discussing plans & the weather). Using 3 tenses.

- Theme 2 - Holiday & travel: where I usually go, my ideal holiday, booking a hotel, ordering in a restaurant, talking about travelling, holiday disasters). using 3 tenses

- Theme 3 - School: My school what I study, Comparing French & UK schools, opinions on school rules

Drama

Type of assessment
Mock Comp 2 Assessment - Devising a unique short play from a stimulus

Length of assessment
Two lessons

- I can devise drama from stimulus
- I can prepare improvisation
- I can spontaneously improvise
- I can perform a range of different characters
- I can use drama techniques to enhance my performance
- I understand how semiotics impact performance
- I can work with a range of others
- I can work in a range of performance styles
- I can create script
- I can evaluate the work of self and others
- I can describe a range of genres
- I can discuss a range of staging formats
- I can show character through vocal acting skills
- I can show character through physical acting skills

HSC

Type of assessment
Mock PSA for Component 2

Length of assessment
In lesson time during June/July

- Health Conditions such as sensory impairments, physical impairments, learning disability
- Different types of healthcare services: Primary, Secondary and how they meet an individuals needs with a specific condition
- How healthcare services work together
- Social Care Services and how they meet the needs of different individuals.
- Types of social care services: Social Care, Voluntary Care, informal Care
- Barriers to accessing services such as: Physical, sensory disabilities, Social and cultural barriers, geographical, learning disabilities, financial.
- Skills, Attributes and Care Values used by professionals when delivering care to individuals.
- Potential obstacles an individual may have and the impact on recovery.
- How care professionals can use their skills, attributes and care values to help someone overcome their obstacles.

Child Development

Type of assessment
Comp 2 Mock PSA Task 3

Length of assessment
3 lessons

- How do children play.

- Types of play activities.
  Resources needed.
  Preparation, health
  and safety implementation"

- How can learning be supported through play:
  What learning outcomes will the play activity support?
  Which areas of development will the play activity support?
  How can adults be used to support learning in the play activity?"

- Benefits and disadvantages of how the play is organised in an activity

Psychology

Type of assessment
MOCK Paper 1

Length of assessment
Paper 1 is 1 hour 45 minutes.

- Development - early brain development, Piaget's theory of cognitive development, Carol Dweck's mindset theory,

- Memory - the structure, the processes, the features of memory, amnesia, Bartlett's reconstructive memory theory, Atkinson and Shiffrin Multi-store Model, Bartlett's War of the ghost study, Peterson and Peterson the duration of STM study, holism & reductionism debate

- Social influence - understanding obedience, conformity, bystander effect and de-individuation. For obedience and conformity you need to know situational and personality explanations. For crowd behaviour you need to know the difference between pro-social and anti-social behaviour. How to prevent blind obedience. The two key studies are Piliavin subway study and Zimbardo's prison study. How different cultures respond to obedience, conformity, bystander intervention and de-individuation.

- RM - 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
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
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
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"