Scott

Scott Medical and Healthcare College

Care to learn
Learn to care

Revision List
Year 10

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 min 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 min 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: ax2+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

1hr45min

- Digestion, Food Tests & Enzymes
- Diffusion, Osmosis & Active Transport
- Stem Cells
- Cell Structure
- Microscopy & Magnification Calculations
- Communicable Diseases
- Chemical & Physial Barriers
- Vaccination
- Cell Cycle
- Plant Defence Responses
- Plant Diseases
- Non communicable Diseases & Risk Factors

Chemistry

Type of assessment

Chemistry Mock paper 1 - Foundation or Higher.

Length of assessment

1hr45min

- Periodic Table & it's History
- Acids and Alkali's (inc. Titrations)
- Materials and their Properties (inc. Nanoparticles)
- Atomic Structure & History of the Atom
- Isotopes
- Energy Changes (inc. Calculations & Reaction Profiles)
- Bonding
- Fuel Cells & Batteries
- Extraction of Metals (inc. Electrolysis)
- Thermal Decomposition & Conservation of Mass
- Investigative & Graph skills
- Elements, Compounds & Mixtures
- Separating Mixtures

Physics

Type of assessment

Physics Mock paper 1 - Foundation or Higher.

Length of assessment

1hr45min

- Particle Model (including Heating & Cooling Curves)
- Specific Heat Capacity
- Specific Latent Heat
- Density
- Nuclear Radiation and Half Life
- Energy Stores (including calculations)
- Alpha Scattering Experiment
- Energy Resources
- Energy & Power Calculations
- Circuits
- Calculating Charge
- V=IR
- Efficiency Calculations
- Investigating Temperature Changes
- Energy Transfers
- Conductivity of Metals
- Static Charge

History

Type of assessment

50 questions recall test and a skills based question.

Length of assessment

50 minutes

- Germany in 1919
- Threats from the Left and Right
- Weimar Constitution
- Treaty of Versailles
- 1923 Year of Crisis
- Rise of the Nazis
- Munich Putsch
- The Golden Years
- The Leans Years
- Wall Street Crash and the Depression
- Rise of Hitler
- Consolidation of Power
- Henry in 1509
- Rise of Wolsey

French

Type of assessment

Mock reading, listening, writing and speaking papers.

Length of assessment

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

- Revise Y9 vocab (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)
- 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

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

- Talking about what I do online / social media / using my phone
- Describing my school, my subjects, my teachers, my uniform, the school rules, a school exchange and extra-curricular activities
- Describe a typical day, what you usually do and what you did last year for your birthday.

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

Task 1 Mock from a PSA for Component 2.

Length of assessment

1 hour

- 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
- Barriers to accessing services such as: Physical, sensory disabilities, Social and cultural barriers, geographical, learning disabilities, financial

Psychology

Type of assessment

MOCK Paper 1 - Full paper.

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, Willingham's learning theory, Piaget's three mountains study, Gunderson's parent praise study
- 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
- Psychological problems - the symptoms, features and incidence of both depression and addiction. How both disorders impact the individual and society. The biological explanation and treatment of depression and addiction. The cognitive explanation and treatment of depression and addiction. Caspi's depression gene study and Young's CBT addiction study. The nature and nurture debate
- The brain and neuropsychology - the lobes, lateralisation, neurons and synapses, types of agnosia, Damasio's The return of Phineas Gage study and Sperry Split brain study. How has psychology changed over time?
- Social influence - understanding obedience, conformity, bystander effect and deindividuation. 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 Pilliavin's subway study and Zimbardo's prison study. How different cultures respond to obedience, conformity, bystander intervention and de-individuation