Aspire Achieve Thrive

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

Science FOUNDATION

Type of assessment

Mock paper 1 - one for biology, chemistry and physics.

Length of assessment

1hr 10 mins each

- Biology: Structure and function of the heart
- Biology: Pathogens, how they effect the body and how they can be treated and prevented
- Biology: Microscopy and how to calculate magnification
- Biology: The three types of respiration (aerobic, anaerobic and fermentation). To include the effects of exercise on aerobic respiration
- Biology: Gas exchange and calculating SA:V ratios
- Biology: Digestion and food tests
- Chemistry: The reactivity of metals and how to investigate it
- Chemistry: Endothermic and exothermic reactions including energy profiles
- Chemistry: Electrolysis of molten compounds and aqueous solutions
- Chemistry: The structure and properties of the groups in the periodic table
- Chemistry: Calculating the percentage by mass of an element
- Chemistry: How to make a pure, dry sample of salt
- Chemistry: How the structure of an atom will effect its properties such as melting and boiling points
- Physics: Describing the arrangement of solids, liquids and gases and relating this to the density required practical and gas pressure
- Physics: Properties of radioactive decay and calculating half lives

- Physics: Drawing and describing electrical circuits, current and calculating resistance, power and charge
- Physics: Exam skills such as identifying variables, calculating means and identifying errors / anomalies
- Physics: Describing the conclusions from the alpha scattering experiment
- Physics: Describing, explaining and calculating changes in energy stores and transfers

Science HIGHER

Type of assessment

Mock paper 1 - one for biology, chemistry and physics.

Length of assessment

1hr 10 mins each

- Biology: Structure and function of the heart
- Biology: Pathogens, how they effect the body and how they can be treated and prevented
- Biology: Microscopy and how to calculate magnification
- Biology: The three types of respiration (aerobic, anaerobic and fermentation). To include the effects of exercise on aerobic respiration
- Biology: Gas exchange and calculating SA:V ratios
- Biology: Digestion and food tests
- Biology: Bacterial growth and the factors affecting it
- Chemistry: The reactivity of metals and how to investigate it
- Chemistry: Endothermic and exothermic reactions including energy profiles
- Chemistry: Calculating bond energies
- Chemistry: Electrolysis of molten compounds and aqueous solutions
- Chemistry: Writing half equations
- Chemistry: The structure and properties of the groups in the periodic table
- Calculating the percentage by mass of an element
- Chemistry: How the structure of an atom will effect its properties such as melting and boiling points

- Physics: Describing the arrangement of solids, liquids and gases and relating this to the density required practical and gas pressure
- Physics: Properties of radioactive decay and calculating half lives (including ratios)
- Physics: Exam skills such as identifying variables, calculating means and identifying errors / anomalies
- Physics: Drawing and describing electrical circuits, current and calculating resistance, power and charge
- Physics: Describing, explaining and calculating changes in energy stores and transfers

Science TRIPLE

Type of assessment

Mock paper 1 - one for biology, chemistry and physics.

Length of assessment

1hr 45 mins each

- Biology: Structure and function of the heart
- Biology: Diabetes and the effects it can have on the body
- Biology: The structure of cells and using microscopy to observe them
- Biology: The structure and adaptations of the small intestine
- Biology: Gas exchange and how it is affected by SA:V ratio
- Biology: Cancer and its effects on the body
- Biology: Digestive enzymes
- Biology: Osmosis and cell transport methods
- Biology: The effect of exercise on the human body
- Chemistry: Organisation of the periodic table
- Chemistry: Properties of materials including elements in groups 1, 0 and 7 on the periodic table
- Chemistry: Nanoparticles and nanotubes and their properties
- Chemistry: The history of the atom and its modern day structure
- Chemistry: Endothermic and exothermic reactions and how to calculate changes in bond energies
- Chemistry: Investigating temperature changes in reactions
- Chemistry: Cells, batteries and fuel cells and the electrolysis of aluminium oxide
- Chemistry: Conservation of mass

- Chemistry: Making a sample of pure dry salts
- Chemistry: The formation of ionic compounds and their properties
- Physics: Calculating power using a range of equations
- Physics: Electricity calculations including current, potential difference, efficiency and charge
- Physics: Investigating heat loss and the effects of insulation
- Physics: Comparing and evaluating fuel sources
- Physics: Radioacitve decay, half lives and the effects of contamination
- Physics: Describing energy changes and transfers in a system
- Physics: Investigating the thermal conductivity of a material
- Physics: Investigating the resistance in a wire
- Physics: The relationship between current, potential difference and resistance in different components

History

Type of assessment

Paper 1 GCSE Edexecel.

Length of assessment

90 minutes

- Nature and causes of crime from 1000-2000
- Local communities Law Enforcement - Tithings/ Hue and Cry / sheriff
- Role of the church - Sanctuary / Trial by Ordeal / Benefit of clergy
- Law Enforcement 1500-1700
- Development of the police force 1829-2000
- Whitechapel
- Punishments 1000-1700 before development of prisons

Geography

Type of assessment

MOCK Exam Paper 1 (Physical Geography).

Length of assessment

1 hour 30 mins

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

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). 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

Art

Type of assessment

Practical mock exams.

Length of assessment

5 hours

- Final piece based on your current project

Computer Science

Type of assessment

MOCK Exam based on past-paper style questions (90 mins).

Length of assessment

90 minutes

- Architecture of the CPU
- CPU Performance
- Embedded Systems
- Primary Storage (memory)
- Secondary Storage
- Units of Data Storage
- Binary, Denary and Hexadecimal numbers
- Storing characters, images and sound data
- Calculating the size of image and sound files
- Compression
- Networks and Topologies
- Wired and Wireless networks, protocols and layers
- Threats to computer systems and networks
- Identifying and preventing vulnerabilities computer systems and networks
- Operating Systems
- Utility Software

Information Technology

Type of assessment

No MOCK Exam - Pearson Set Assignment MOCK completed during lesson time to use for reporting of current working grade.

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

Food tech/catering

Type of assessment

Full paper for Unit 1 (80 marks) Unit 2 = 3 hours of theory in lessons to come up with a dish and write a detailed timeplan and a 2 hour practical exam to prepare, cook and present the dish to restaurant standards.

Length of assessment

90 minute theory exam 120 minute practical assessment

- Commercial and non-commercial establishments
- Residential and non-residential establishments
- Types of contract
- Job roles and responsibilities of the kitchen brigade
- Qualifications needed for the kitchen brigade
- Factors that contribute to the success of a hospitality and catering establishment (positive and negative)
- Structure of job roles in a small hotel
- Contract for front of house staff in a hotel
- Dress code for front of house staff
- Small kitchen equipment and uses
- Large kitchen equipment and uses
- Equipment and accommodation in hotels to meet customers needs
- HACCP
- Correct storage of food in transportation and delivery
- Risk assessments
- Intolerances
- Allergies
- Visible and non-visible symptoms of food induced ill health
- Environmental health officer: role and responsibilities
- Catering provisions to meet customer needs

- To be able to follow a timeplan to prepare a dish
- To cook the dish correctly
- To wash and clean your area to a high standard
- To complete the special points in a timeplan

Modern Britain

Type of assessment

A mixture of short and extended writing questions. All based on a past GCSE paper that has been taught on two religions of Christianity and Islam. Both based around the practices, teachings and beliefs.

Length of assessment

1 hr and 45 mins

- I understand the key term of ascension
- I understand the Christian beliefs about the crucifixion
- I understand the creations story and how it influences Christians today
- I understand the teachings of sin
- I can understand the nature of God in Christianity and Islam
- I can understand the importance of pilgrimage and the sites that Christians go to visit
- I can understand the importance of prayer for Christians
- I can understand the role of food banks in the local community
- I can understand how Christian churches help people who are being persecuted
- I can evaluate the importance of the Holy Communion (Eucharist) as part of Christian life
- I can recall the last prophet in Islam
- I can understand how angels influence Muslims today
- I can understand the importance of Holy Books to Muslims
- I can understand the importance of believing in the Six Articles of Faith
- I can understand the 5 Pillars of Islam
- I can understand the importance of Jummah Prayer

- I can understand the importance of the Night of Power
- I can understand the Jihad
- I can evaluate the importance of Salah and Hajj for Muslims

Music

Type of assessment

A mixture of short and extended questions based on a variety of Musical Genres through a listening based exam style assessment.

Length of assessment

One lesson

- I can identify dynamics
- I can identify different tempo
- I can identify a range of instrumentation
- I can identify the structure and form
- I can use Italian musical terms
- I can identify a range of genres
- I can perform using an instrument of my choice
- I can rehearse and improve performance
- I can evaluate the work of self and others
- I can analyse the performances of influential artists
- I can compose music

HSC

Type of assessment

Component 3 practice exam, this will be of reduced length and will cover all of learning aim A and part of learning aim B.

Length of assessment

1 hour

- Physical factors
- Lifestyle factors
- Social factors
- Cultural factors
- Economic factors
- Environmental factors
- Life Events
- Health Indicators
- BMI
- Resting heart rate and heart rate after recovery
- Blood pressure

CD

Type of assessment

Component 3 practice exam, this will be of reduced length and will cover all of learning aim A and part of learning aim B.

Length of assessment

1 hour

- A1 Individual needs
- Physical needs
- Cognitive/intellectual needs
- Social and emotional needs
- Communication and language needs
- Know how individual needs may impact on play, learning and development
- Physical learning and development
- Cognitive and intellectual learning and development:
- Communication and language learning and development:
- Social and emotional learning and development:
- B1 Ensure all children are safe

Business
June Assessment

Type of assessment

Theme 1 Paper - includes extended writing questions and case studies.

Length of assessment

1 hour 45 mins

- Reward
- Market Share
- Unique Selling Point
- Trade Credit
- Secondary Market Research
- Variable Costs
- Net Cash Flow Calculation
- Partnership
- Marketing Mix / Consumer Needs
- Sole Trader
- % change in Calculation
- New Business Ideas
- Market Mapping
- Increased Competition
- Importance of Cash
- Social Media around business and customers
- Selling Price Calculation
- Profit Calculation

- Reducing Costs / Breaking Even
- Market Segment
- Increase in Value of Pound (Exchange Rates)
- Shop opening V E-commerce
- Stakeholder
- Business Plan
- Digital Payment System V Online Meetings
- Competing with Large Manufacturers

Business
January Assessment

Type of assessment
50 question recall test and two extended writing questions.

Length of assessment
One lesson

- Dynamic Nature of Business
- Role of Business Enterprise
- Risk and Reward
- Customer Needs
- Market Research
- Market Segmentation
- Competitive Environment
- Business Aims and Objectives
- Business Revenues, Costs and Profits
- Breakeven
- Cash and Cash Flow
- Sources of Business Finance