

**Key Stage 4 Summer Term Assessments  
Revision Topics**

<b>Subject</b>	<b>Revision Topics</b>	
<b>Maths</b>	<p><u>Foundation Paper</u></p> <p><u>Paper 1 (Non calculator)</u></p> <p><b>Number</b> Order of Operations Percentage profit Calculating with Fractions Standard Form Ratio Capture/Recapture Surds (rationalise) Rules of indices Functions (Composite and inverse)</p> <p><b>Algebra</b> Linear Sequences Recognise equations and graphs Direct and Inverse Proportion Change the subject of a formula Quadratic equations</p> <p><b>Geometry</b> Congruent triangles Angles in circles and sectors Vectors Density/Volume and Pressure/Area</p> <p><b>Data Handling</b> Stem and Leaf Cumulative Frequency Calculating probability</p> <p><b>Paper 2 (Calculator)</b></p> <p><b>Number</b> LCM/Prime Factors Ratio Percentages calculating/reverse/compound interest Product Rule of Counting Iteration Indices</p> <p><b>Algebra</b> Cubic and Quadratic graphs Algebraic Fractions Form and Solve Equations</p>	<p><u>Higher Paper</u></p> <p><u>Paper 1 (Non calculator)</u></p> <p><b>Number</b> Comparing decimals and converting FDP Multiples Rounding Indices Ratio/Write as a fraction/1:n/Problem solve Percentages and profit/percentage increase decrease Calculating with Fractions/Fraction of an amount Standard Form Estimation Proportion Number Machine</p> <hr/> <p><b>Algebra</b> Expand and simplify Change the subject of a formula Solving two step equations Linear Sequences Recognise different graphs (Linear, Quadratic) Factorise</p> <p><b>Geometry</b> Co-ordinates Congruency Find missing angles Reflection Bearings Volume/Pressure</p> <p><b>Data Handling</b> Pictograms Two-way tables Mean from a table Probability Stem and Leaf</p> <p><b>Paper 2 (Calculator)</b></p> <p><b>Number</b> Metric conversions Fractions of an amount/reciprocal</p>

<p>Quadratic Sequences Graph transformations Tangents Linear graphs (Finding gradient)</p> <p><b><u>Geometry</u></b> Vectors Trigonometry Right Angles Triangles Pythagoras Circles Volume Complex Solid Similarity Non right angles trigonometry</p> <p><b><u>Data Handling</u></b> Venn Diagrams and Set Notation Box Plots</p> <p><b>Paper 3 (calculator)</b> <b><u>Number</u></b> LCM and Prime factorisation Convert recurring decimals to fractions Ratio Bounds Calculating with Standard Form Direct Proportion</p> <p><b><u>Algebra</u></b> Expand and simplify Solve Inequalities including using a graph Algebraic Fractions Area of a non-right angled triangle Ratio involving algebra Velocity time graphs – Acceleration and area under graph Distance/Speed/Time Right Angled Trigonometry Solving quadratics Area</p> <p><b><u>Geometry</u></b> Transformations/Invariance Circle Theorems 3D Pythagoras Volume</p> <p><b><u>Data Handling</u></b> Histograms Probability Mean from sets of data</p>	<p>Convert FDP Multiplication with decimals Order of Operations (Bidmas) Best Buys/Money problems Error Intervals Direct Proportion Percentages Conversion Graphs</p> <p><b><u>Algebra</u></b> Linear Sequences Collecting Like Terms and simplifying indices Solving equations Distance Speed and Time Simultaneous Equations Solving a quadratic using a graph</p> <p><b><u>Data Handling</u></b> Interpreting Real Life Graphs Probability of events happening Vertical line graphs Mean from a table</p> <p><b><u>Geometry</u></b> Perimeter of a compound shape Plans and Elevations Volume Density and Mass Constructions</p> <p><b>Paper 3 – Calculator</b> <b><u>Number</u></b> Convert FDP Round numbers Cube number Convert Metric/Imperial units Prime Numbers/LCM Time Ratio</p> <p><b><u>Algebra</u></b> Collecting Like Terms Solving one and two step equations Substitution Cubic Graphs Gradient of a straight Line</p> <p><b><u>Geometry</u></b> Angles on a straight line and around a point Volume of a cuboid Trigonometry in Right Angled triangles Rotations</p>
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		Pythagoras Angles in Polygons Vectors  <u><b>Data Handling</b></u> Bar Charts Drawing a Pie Chart Venn Diagrams
<b>English</b>	Literature Macbeth A Christmas Carol	Language Narrative and descriptive writing and reading fiction
<b>Science</b>	<p><b>BIOLOGY</b>          Higher Tier Paper 1</p> <ul style="list-style-type: none"> <li>- Animal cell</li> <li>- Magnification</li> <li>- Microscopes</li> <li>- Pathogens</li> <li>- Photosynthesis and rate of Photosynthesis</li> <li>- The human heart</li> <li>- Diabetes</li> <li>- Circulatory system</li> <li>- Stem cell</li> <li>- Enzymes</li> <li>- Drug trial</li> </ul> <p><b>CHEMISTRY</b>          Higher Tier Paper 1</p> <ul style="list-style-type: none"> <li>- The Periodic Table</li> <li>- Balancing equation</li> <li>- Titration</li> <li>- Nanoparticle</li> <li>- Atomic structure</li> <li>- Isotopes</li> <li>- Plum pudding model</li> <li>- Covalent bonding</li> <li>- Bond energies</li> <li>- Exothermic reaction</li> <li>- Activation energy</li> <li>- Electrolysis</li> <li>- Reactivity of a metal</li> <li>- Relative formula mass</li> <li>- Relative atomic mass</li> </ul> <p><b>PHYSICS</b>          Higher Tier Paper 1</p> <ul style="list-style-type: none"> <li>- Potential difference</li> <li>- Efficiency</li> <li>- Data logger</li> <li>- Kinetic energy</li> <li>- Electricity</li> </ul>	<p><b>COMBINED SCIENCE: TRILOGY</b>          Foundation Tier          Biology Paper 1F</p> <ul style="list-style-type: none"> <li>- The rate of Photosynthesis</li> <li>- Transport in Planta</li> <li>- Calculating surface area</li> <li>- Gas exchange</li> <li>- Animal and Plant cell</li> <li>- Specialised cell</li> <li>- Microscopes</li> <li>- Magnification</li> <li>- Transport in plants</li> <li>- Infectious diseases</li> <li>- Pathogens</li> <li>- The heart</li> <li>- Beta blockers</li> <li>- Digestion</li> </ul> <p><b>COMBINED SCIENCE: TRILOGY</b>          Foundation Tier          Chemistry Paper 1F</p> <ul style="list-style-type: none"> <li>- Endothermic and Exothermic reaction</li> <li>- Activation energy</li> <li>- Electrolysis</li> <li>- Mass number</li> <li>- Electronic structure</li> <li>- Group 1 elements</li> <li>- Covalent bonding</li> <li>- Reactivity of metals</li> <li>- Relative atomic masses &amp; Relative formula mass</li> </ul> <p><b>COMBINED SCIENCE: TRILOGY</b>          Foundation Tier          Physics Paper 1F</p> <ul style="list-style-type: none"> <li>- Circuits</li> <li>- Potential difference</li> <li>- Power</li> <li>- Charge flow equation</li> </ul>

	<ul style="list-style-type: none"> <li>- Radioactive isotopes</li> <li>- Half - life</li> <li>- Mains Electricity</li> <li>- Energy input</li> <li>- Resistance</li> <li>- The gravitational potential energy</li> <li>- Specific heat capacity</li> <li>- Density</li> <li>- Static electricity</li> </ul> <p>COMBINED SCIENCE: TRILOGY Higher Tier Chemistry Paper 1</p> <ul style="list-style-type: none"> <li>- Reactivity series</li> <li>- Relative atomic mass</li> <li>- Activation Energy</li> <li>- Covalent Bonding</li> <li>- Bond Energies</li> <li>- Periodic table</li> <li>- Electrolysis</li> <li>- Balancing Equations</li> </ul> <p>COMBINED SCIENCE: TRILOGY Higher Tier Biology Paper 1</p> <ul style="list-style-type: none"> <li>- The Human heart; beta blockers</li> <li>- Calculate stroke volume</li> <li>- Digestion</li> <li>- Infection &amp; response</li> <li>- Prokaryotic &amp; Eukaryotic</li> <li>- Magnification</li> <li>- Plants and diseases</li> </ul> <p>COMBINED SCIENCE: TRILOGY Higher Tier Physics Paper 1</p> <ul style="list-style-type: none"> <li>- Electricity <ul style="list-style-type: none"> <li>● Circuits</li> <li>● Potential difference</li> <li>● Resistance</li> </ul> </li> <li>- Specific Latent heat</li> <li>- Particle Theory</li> <li>- Non -renewable resources</li> <li>- Mains Electricity</li> <li>- Gamma radiation</li> <li>- Half life</li> <li>- Radioactive decay</li> </ul>	<ul style="list-style-type: none"> <li>- Potential difference</li> <li>- Efficiency equation</li> <li>- Renewable energy resource</li> <li>- Radiation</li> <li>- Energy transfer</li> <li>- Gravitational potential energy</li> <li>- Resistance</li> <li>- Specific latent heat</li> <li>- Particle theory</li> </ul>
<b>History</b>	Two papers: Medicine in Britain 1250-present Anglo- Saxons	



<b>Geography</b>	One paper: Combined paper 1 and 2: Human and Physical Geography	
<b>P&amp;E</b>	One paper: Christianity and Crime and Punishment, Family and Relations, Peace and Conflict, Human Rights and Social Justice	
<b>Spanish</b>	<b>Reading and listening</b> Family and relationships, free time, technology, holidays, home and local area <b>Speaking</b> Holidays and local area, role play and photocard <b>Writing</b> Grammar - past/present/future - holidays, family and relationships, free time	
<b>French</b>	<b>Reading and listening</b> Family and relationships, free time, technology, holidays, home and local area <b>Speaking</b> Holidays and local area, role play and photocard <b>Writing</b> Grammar - past/present/future - holidays, family and relationships, free time	
<b>Computer Science</b>	<ul style="list-style-type: none"> <li>● Boolean logic</li> <li>● Units</li> <li>● Data storage - Numbers</li> <li>● Data storage - Characters</li> <li>● Data storage - Images</li> <li>● Data storage - Sound</li> <li>● Data storage - Compression</li> <li>● Computational thinking</li> <li>● Designing, creating and refining algorithms</li> <li>● Architecture of the CPU</li> <li>● Programming fundamentals</li> <li>● Data types</li> <li>● CPU Performance</li> <li>● Primary storage (Memory)</li> <li>● Secondary storage</li> <li>● Networks and topologies</li> </ul>	
<b>Art</b>	Y10 PHOTO & FINE ART- 'ordinary and extraordinary' PPE: ongoing sketchbook assessment with final outcome/s over 2 day PPE	Y10 GRAPHICS- Shop front project: ongoing sketchbook assessment with final outcome/s over 2 day PPE
<b>Music</b>	<b>Music</b> Unit 6 - Introducing Music Performance - Learning Aim A (coursework assessment) <b>Music Tech</b> Unit 7 - Introducing Music Sequencing (coursework assessment)	
<b>Drama</b>	Component 1 Mock Performance	



# WELLING SCHOOL

<b>Health and Social Care</b>	<b>Unit 1</b> Statutory, Private and Voluntary Provisions Functions of Services Referrals Health and Social Care Services Regulatory and Inspection Bodies Formal and Informal Care Services	<b>Unit 2</b> Legislation and Standards Professional Skills, Behaviours and Attributes Continuing Professional Development Creating Personal Development Plans Identifying training needs Person Centred Care Professional and Personal Relationships Characteristics of Partnership Working Barriers to Partnership Working Health and Social Care Values
<b>Child Development</b>	Areas of Development Methods of Observations Biological/ environmental factors that can affect development Basic Care needs of a child The importance of routines Transitions that children may experience The types of child care settings available	
<b>IT</b>	<ul style="list-style-type: none"><li>● Communication technologies</li><li>● Cloud storage</li><li>● Cloud computing</li><li>● Selection of platforms and services</li><li>● Using cloud and traditional systems together</li><li>● choosing cloud technologies</li><li>● Maintenance, set up and performance</li><li>● Collaborative technologies</li><li>● Using modern technology when managing teams:Communication and collaboration</li><li>● Using modern technology when managing teams:Scheduling and planning</li><li>● Communication with Stakeholders</li><li>● Accessibility and Inclusivity</li><li>● How modern technologies impact on organisations</li></ul>	