

Subject topic lists for cycle 3 end of year exams

Year 8




English Language	☹	☺	☺	Notes
Paper 1 - unseen - fiction text				
Q1 - retrieval				
Q2 - analysis of language				
Q3 - analysis of structure				
Q4 - evaluation				
Q5 - Writing - describe or narrate				
Paper 2 - unseen - non-fiction x 2 texts - one pre 1900				
Q1 - retrieval				
Q2 - summarise and interpret				
Q3 - analysis of language				
Q4 - comparison of writer's perspectives				
Q5 - Writing - discursive essay				

History	☹	☺	☺	Notes
The Industrial Revolution				
The Transatlantic Slave Trade				
Votes for Women in Britain 1880-1918				
Civil Rights in the USA 1950s and 1960s				
Gandhi and Indian Independence				

Geography	☹	☺	☺	Notes
Countries, continents and oceans				
Graph and maps skills				
Frozen Planet – location, features, adaptations, climate graphs, problems and benefits of use, management of				
Hot deserts – location, features, adaptations, human use				
Brazil – location, ecosystems, climate, population distribution, rural – urban migration, advantages and disadvantages of favelas				
Risky World- location of earthquakes and volcanoes, plate margins, volcano impacts case study, formation of tsunami and case studies of impacts and responses HIC v LIC				
China – growth of, population distribution factors, growth of megacities, population structure, growth and management (One Child Policy), impacts of manufacturing, resource – problem of water supply				

RE	☹	☺	☺	Notes
Buddhism				
Hinduism				
Philosophy				
Ethics				




Maths	☹	☺	😊	Notes
Core Topics				
Fractions-multiplying, dividing, adding, subtracting, converting, fractions of amounts				
Percentages -Percentage Change, simple interest, compound interest, reverse percentage problems				
Geometry: area of circles and trapeziums, converting between area units, circumference				
Pythagoras' Theorem				
Index laws				
Standard form				
Algebra 2- Collecting like terms, forming an expression from words, Expand & Factorise single brackets, Inequalities, Algebra with area, Rearranging formulae				
Ratio – simplifying, sharing in a ratio, Multiplicative relationships, ratios as fractions, work rate, best buys, recipes, Exchange rates, Similar Shapes, Problem solving with ratio and area.				
Compound Units				
Algebra 3- Plotting Linear graphs, Finding the gradient, Parallel lines				
Statistics-Averages including frequency tables, Frequency polygons, Stem & Leaf, Scatter graphs, Pie Charts				
Probability-Scale, Mutually exclusive, theoretical probability, sample space, Relative frequency, Venn diagrams				
Geometry – Transformations, Loci, Constructions, angle bisector, perpendicular bisector, loci of a point				
Extension Topics				
Reverse fractions				
Leaving answers in terms of Pi.				
Imperial measures (miles/km)				
Area of compound shapes with circles.				
3-D Pythagoras				
Area of a triangle using Pythagoras'				
Fractional and negative indices				
4 operations with standard form.				
Factorising Quadratics and Expanding Cubics				
Direct and indirect proportion				
Area and volume scale factors				
Quadratic graphs				
Perpendicular lines ($y=mx+c$)				
Significance of gradient e.g. DST, rates of change				
Median from a grouped table				
Quartiles from a list of data and Inter Quartile Range.				
Comparing data sets				
Compare pie charts.				
AND/OR rule for Probability				




Science				Notes
Year 7 Topics				
Organisms				
• Human skeleton				
• Joints and muscles				
• Animal and plant cells				
• Specialised cells				
Matter				
• Particle model				
• Changes of state				
• Diffusion				
• Separating solutions				
• Distillation				
• Chromatography				
Energy				
• Energy stores				
• Energy transfer				
• Ways to generate electricity – renewable and non-renewable				
• Potential energy				
• Kinetic energy				
Genes				
• Variation				
• Reproduction				
• Foetus development and factors effecting a foetus development				
Reactions				
• Metals and non-metals				
• Displacement reactions				
• Acid, Alkali and indicators				
• Neutralisation				
Electromagnets				
• Electric circuits				
• Series and parallel				
• Resistance				
• Static charge				
• Electric fields				
Waves				
• Sound				
• Reflection and absorption				
• Refraction				
• Properties of light				
• Coloured light				
Earth				
• Structure of Earth				
• Rock cycle				
• Stars and galaxies				
Forces				
• Speed, distance (motion graphs)				
• Types of forces				
• Mass and weight				
• Gravity and gravitational field strength				

Science	☹	☺	😊	Notes
Year 8 Topics				
Matter				
• Periodic table (metals, non-metals and trends)				
• Element and compounds				
• Polymers and ceramics				
Ecosystem				
• Respiration (aerobic and anaerobic)				
• Fermentation				
• Photosynthesis				
• Minerals in plants				
Energy				
• Work				
• Thermal energy and temperature				
• Insulation				
Organisms				
• Breathing				
• Gas exchange				
• Balanced diet				
• Digestion				
Reactions				
• Exothermic and endothermic				
• Catalysts				
• Combustion and fuels				
• Chemical and physical changes				
Waves				
• Sound and light				
• Transverse and longitudinal				
Electromagnets				
• Forces and fields				
• Strength of electromagnets				
Earth				
• Atmosphere gases				
• Carbon cycle				
• Global warming				
• Recycling				
• Extracting metals				
Genes				
• Natural selection				
• Extinction				
• Genes and chromosomes				
• Variation and inheritance				
Forces				
• Drag				
• Stretch and compression				
• Hooke's law				
• Pressure in solids and liquids				
• Calculating pressure				
• Float and sink				

Art, Drama, Design Technology, ICT/Computer Science, Music, PE

-Subjects are assessed in lessons for learning cycle 3

Drama				Notes
LC1 - 'Blood Brothers' Scripted Performance & Context research project				
LC2 - 'Richard III' Live Theatre Analysis				
LC2 - 'Betrayal' Devised Performance				
LC3 - Devising Techniques				
LC3 - 'Haunted House' Devised Performance				

Music				Notes
LC1 - Blues Music				
LC2 - Folk Music				
LC3 - Music Technology Composition				