

Maths– Year 11 Only

Foundation Tier	Higher Tier
Angles, Bearings & Scale Drawings Number Factors, Multiples & Primes Algebra Fractions, Decimals & Percentages 1 Representing Data & Averages 1 Coordinates & Linear Graphs Working in 2D Sequences Angles & Polygons Linear Equations & Inequalities Probability Quadratic Expressions & Equations Circles Constructions & Loci Pythagoras & Trigonometry Fractions, Decimals & Percentages 2 Ratio & Proportion Measures & Accuracy Vectors Working in 3D Representing Data & Averages 2 Indices, Roots & Standard Form Graphs Probability of Combined Events	Angles & Polygons Bearings & Scale Drawings Calculations Algebraic Expressions Fractions, Decimals & Percentages Representing Data & Averages Coordinates & Linear Graphs Working in 2D Linear Equations, Formulae & Functions Probability 1 Representing Data Equations Graphs & Inequalities Ratio & Proportion Probability 2 Constructions & Loci Circles & Circle Theorems Measures Working in 3D Number Properties, Indices & Surds Pythagoras & Trigonometry Sequences Graphs & Functions Vectors Real Life Graphs Proof

Detailed revision lists with learning objectives for each topic area will be shared with students via Google Classroom.

Science – Year 11 Only

Biology

Homeostasis, The nervous system, The eye, The endocrine system, Diabetes, Water balance and the kidneys, Negative feedback (Higher only), Human reproduction, Auxins.

DNA and proteins (some triple only), Human migration, Meiosis, Genetics, Gregor Mendel (Triple only)

Evolution, Darwin, Wallace and Mendel (Triple only), Antimicrobial resistance, Selective breeding,

Genetic modification, Cloning, Classification and survival

Ecosystems, Predator prey relationships, Trophic levels and biomass (Triple only), Competition,

Cycling materials (Triple only), A changing environment, Waste and pollution, Food security (Triple only)

Chemistry

Rates of Reaction, Reversible reactions and dynamic equilibria

Carbon Compounds as fuels and feedstock

Purification, formulations and Chromatography

Composition of the Earth's Atmosphere, Carbon Dioxide and Methane as greenhouse gases, Common atmospheric pollutants and their sources

Physics

Forces, Distance and velocity time graphs, Weight or mass, Newtons 1st law of motion, Acceleration, Newtons 3rd Law of motion, Moments, Hooke Law, **Momentum, Pressure in fluids.**

Magnetism, Uses of electromagnets, Force on a wire, Uses of electromagnets, Electricity and magnetism

Waves, Required practical, Reflection and refraction of waves, Uses of waves, Electromagnetic spectrum, Required practical, **Colours, Lenses, Infrared radiation**

Business Studies

Paper 1: Business in the real world

Influences on business

Business operations

Human resources

Computer Science

- 2.1 Algorithms
- 2.2 Programming fundamentals
- 2.3 Producing robust programs
- 2.4 Boolean logic
- 2.5 Programming languages and Integrated Development Environments

DT

Core content / reduced timbers section - revision tasks and sections will be shared with the group

French

Writing and translation papers. Detailed list available on google classroom + Quizlet revision.

Theme 1: Identity and culture

Me, my family and friends, Technology in everyday life, Free-time activities, Customs and festivals in French-speaking countries

Theme 2: Local, national, international & global areas of interest

Travel and tourism.

Theme 3: Current and future study and employment

My studies, Life at school/college, Education post-16, Jobs, career choices and ambitions

Geography

Challenge of natural hazards

UK Physical Landscapes - Rivers and Coasts

Changing Economic World (minus UK post-industrial economy)

History

Superpower Relations and the Cold War, 1941-91 Early Elizabethan England, 1558-88

Key Topic 1: Elizabethan Government, Challenges to the Religious Settlement, Mary Queen of Scots

Key Topic 2: Plots and revolts, Relations with Spain

Key Topic 3: Theatre, Raleigh and the settlement of Virginia, Exploration and Voyages of Discovery Cold War The origins of the cold War 1943- 1949 Topic 1 Tehran, Yalta and Potsdam, Rising tensions and Eastern Europe, Truman Dcoterine and the Marshall Plan Iron Curtain, Comiform and Comecon, Berlin Blockade

PE

Component 1 - fitness & body systems

Topic 3 - physical training

Component 2 - Health & performance

Topic 1 - health, fitness & well-being

Topic 2 - sport psychology

RE

Paper 2: Topics: Human Relationships, Peace and Conflict, Crime and Punishment

Travel and Tourism

Political factors affecting global travel and tourism

Economic factors affecting travel and tourism

Natural disasters and impact on tourism

The influence of the media on global travel and tourism

Safety and security concerns influencing global travel and tourism

Health risk and precautions

How travel and tourism organisations respond to different factors

How governments respond to different factors

Economic impact of travel and tourism

Positive and negative impacts of tourism

Sustainability in travel and tourism

Infrastructure

Traffic management

Planning and legislation

Visitor education

Controlling and protecting natural resources

Wildlife conservation

Butler Model

Emerging versus mature destinations