ST THOMAS MORE CATHOLIC SCHOOL
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29th April 2021

Dear Parent / Carer

The second 'assessment window', where students will take formal tests based on examination board materials, will commence on the 13th May. Assessments taken under high control conditions will help to provide further evidence to support the grade given to the students. As with the first assessment window, these will be shorter than the full exam papers that would usually be taken. Attached is the timetable for these assessments.

Topic lists have been discussed with students in their lessons so that students have a clear idea of what to prioritise for revision, this should enable them to focus their studies. A full set of topic lists is attached for your information.

We are grateful for your continuing support throughout this period.

Yours sincerely

Alex Rosen
Acting Head of School

YEAR 12 SUMMER ASSESSMENT 2 – MAY TIMETABLE			
DAY	PERIOD 1 and 2 09.10 – 11:10	PERIOD 3 and 4 11:30 – 13:30	PERIOD 5 and 6 14:10 – 16:10
Thursday 13th May 2021	ENGLISH	PSYCHOLOGY	SCIENCE
Friday 14th May 2021	MATHS	SOCIOLOGY	GEOGRAPHY
Monday 17th May 2021	RE	SCIENCE	BUSINESS
TUESDAY 18th May 2021	HISTORY	MEDIA	SCIENCE
Wednesday 19th May 2021	SPORT	HEALTH & SOCIAL CARE	MFL
Thursday 20th May 2021	IT	ECONOMICS, DRAMA & ART	MUSIC

Year 12 Topic Overview – May 2021

Subject	Qualification	Topics
English	AS Level	Wuthering Heights and Mrs Dalloway – theme of relationships within the two novels. Including Historical context Revise all Poems of the Decade Anthology – focus on comparison skills.
Maths	AS Level	**Pure Maths** **Algebra and functions** • Algebraic expressions – basic algebraic manipulation, indices and surds • Quadratic functions – factorising, solving, graphs and the discriminants • Equations – quadratic/linear simultaneous • Inequalities – linear and quadratic (including graphical solutions) • Graphs – cubic, quartic and reciprocal (Not completed yet) **Coordinate geometry in the (x, y) plane** • Straight-line graphs, parallel/perpendicular, length and area problems • Circles – equation of a circle, geometric problems on a grid **Further algebra** • Algebraic division, factor theorem and proof • The binomial expansion • **Trigonometry** • Trigonometric ratios and graphs • Trigonometric identities and equations **Differentiation** • Definition, differentiating polynomials, second derivatives • Gradients, tangents, normals, maxima and minima **Integration** • Definition as opposite of differentiation, indefinite integrals of xn • Definite integrals and areas under curves • Exponentials and logarithms: Exponential functions and natural logarithms
Biology	AS Level	DNA and Protein synthesis, Carbohydrates 1 and 2 Enzymes, how enzymes work, Observing cells Eukaryotic cells 1 and 2 -, mitosis, Sexual reproduction and meiosis, Gametogenesis Fertilisation in mammals and plant
Chemistry	AS Level	Halogenoalkanes Topic 10 Alcohols Topic 13 Reaction Kinetics Topic 6

Year 12 Topic Overview – May 2021

		Energetics Topic 14
Physics	AS Level	SI units/quantities Viscosity/terminal velocity Intensity/Power Time period/frequency/wave speed Electron properties Longitudinal waves de Broglie wavelength Uncertainty Young modulus Transverse waves Diffraction/Huygens' construction Hooke's law EPE (energy) Work function Photoelectric effect Standing waves Lenses/Power Refraction TIR/critical angle Photon emission/absorption spectra Monochromatic light & diffraction Ultrasound Vectors/Velocity Stoke's law
Philosophy and Ethics	AS Level	Natural Law Theory, Kantian Law and Business Law.
Geography	AS Level	Coastal Landscapes and Change Regenerating Places
History	AS Level	In search of the American Dream: the USA, c1917–96 • Pop culture from 1917-1980 • The changing political environment from 1945-1980 & India c.1914–48: The Road to Independence • Source-based questions (8 and 12 marks) • Gandhi's attitudes 1920-1930 • British rule in India 1920-1930 • Hindu/Muslim relations 1920-1930 • Civil disobedience campaigns 1920-1930
IT	BTEC	**No exam** **Website Development course work submission (SGK)** **BTEC Level 3 coursework- Externally moderated.** A- Understanding the principals of website development B- Design a website to meet client requirements. C- Develop a website to meet client requirements. **Using Social Media in Business (NSM)** **BTEC Level 3 coursework- Internally moderated.**

Year 12 Topic Overview – May 2021

		Sections to cover: Section A: A.P1 Different ways in which a business can use SM A.P2 Explain the audience profiles of different social media webistes. (Final submission for P1 & P2) A.M1 Assess the different ways in which a business can use social media to attract a target audience.
Music	AS Level	Development of the symphony (Haydn set work), musical theatre
Music	BTEC	DAW production
Media	BTEC	Unit 1 Representation • The representation of people and issues • Audience response to media texts • Media language used in media texts
Psychology	AS Level	**Paper 1:** **Small tariff questions from the Memory topic** The multi-store model of memory: sensory register, short-term memory and long-term memory. Features of each store: coding, capacity and duration. Types of long-term memory: episodic, semantic, procedural. The working memory model: central executive, phonological loop, visuo-spatial sketchpad and episodic buffer. Features of the model: coding and capacity. Explanations for forgetting: proactive and retroactive interference and retrieval failure due to absence of cues. **Some questions will have an element of research methods incorporated into them.* **One essay 12 mark question from the Issues and Debates topic** Explanations of attachment: learning theory and Bowlby's monotropic theory. The concepts of a critical period and an internal working model. Bowlby's theory of maternal deprivation. Romanian orphan studies: effects of institutionalisation. The influence of early attachment on childhood and adult relationships, including the role of an internal working model. **Some questions will have an element of research methods incorporated into them.*
Business	AS Level	Stakeholder mapping PED Sources of finance Inventory control Improving organisational design Profit Capacity utilisation Labour productivity Budgets Managers, leaders and decision-making Market research

Year 12 Topic Overview – May 2021

		Operational decisions Decision Trees
Business	BTEC	Current accounts Consumer protection Different ways to pay Planning expenditure Types of assets Types of incomes Measuring profitability Measuring efficiency Measuring liquidity
Economics	AS Level	**Micro** Indirect taxes and subsides Types of market failure Externalities Public goods Information gaps Government intervention in markets Government Failure **Macro** National income The multiplier Aggregate supply Employment and unemployment Conflicts and trade-offs Equilibrium levels of real national output Supply-side policies Inflation Exchange rates
Sociology	AS Level	Education: The role of education AND Families and Households: Theory- Feminism
Health and Social Care	BTEC	Unit 2: Gaining feedback from service users, job roles (responsibilities), safeguarding, supporting service users, job roles (partnership working), empowerment, care settings, barriers to accessing care, dealing with conflict, responsibilities of the employer, job roles (accountability) Unit 1 (in class) Life stages and ages, life events, Piaget-schemas, play, puberty-sexual maturity, low income, factors (genetic, environmental, social, financial and biological)
Sport	BTEC Level 2	A1 – Interpreting fitness data in relation to sport & activity A2 – Methods of training for sport & activity A3 – The FITT principles and principles of training A4 – Understanding fitness programmes B1 – Macronutrients B2 – Micronutrients B3 – Hydration B4 – Improving nutrition for sport & activity

Year 12 Topic Overview – May 2021

		C1 – The impact of motivation on participation in sport & activity C2 – The impact self-confidence can have on participation C3 – The impact of anxiety on participation
Sport	BTEC Level 3	**Cardiovascular System** Structure of the cardiovascular system – atria, ventricles, bicuspid valve, tricuspid valve, semi-lunar valves, septum, major blood vessels (aorta, vena cava, pulmonary artery, pulmonary vein), coronary arteries. Structure of blood vessels – arteries, arterioles, veins, venuoles, capillaries. Understand the control of the cardiac cycle and how it changes during exercise and sports performance. • Conduction process - Sinoatrial node (SAN) - Atrioventricular node (AVN) - Bundle of His - Purkinje fibres. Effect of the sympathetic and parasympathetic nervous system. Adaptations of the cardiovascular system to exercise The impact of adaptation of the system on exercise and sports performance. • Cardiac hypertrophy. • Increase in resting and exercising stroke volume. • Decrease in resting heart rate. • Capillarisation of skeletal muscle and alveoli. • Reduction in resting blood pressure. • Decreased heart rate recovery time. • Increase in blood volume. **Respiratory System** Structure of the respiratory system • Structure of the respiratory system (nasal cavity, epiglottis, pharynx, larynx, trachea, bronchus, bronchioles, lungs, alveoli, diaphragm, thoracic cavity). • Intercostal muscles (external and internal). Function Understand the function of the respiratory system in response to exercise and sports performance. • Mechanisms of breathing (inspiration and expiration) at rest and during exercise. • Gaseous exchange. Control of breathing Understand how breathing rate is controlled in response to exercise and sports performance. • Neural (medulla oblongata as the respiratory centre in the brain). • Chemical (chemoreceptors detect change in blood carbon dioxide concentrations and changes in pH). Responses of the respiratory system to a single sport or exercise session • Increase in breathing rate. • Increased tidal volume.

Year 12 Topic Overview – May 2021

		Energy Systems The process of energy production in all 3 energy systems. Energy sources, recovery times and the contribution of energy (How much?) ATP – PC - Lactate - Aerobic

These are the topics that will be assessed during the second Assessment window (13th – 20th May).