Bangkok Christian College English Immersion Program
Course Scope for Mathematics Mathayom 6
Semester 1/2025-2026 Teacher Vincent Illison
Reviewing chapters 1-6, followed by chapters 7 and 8 to complete book 2.
This will be followed by Statistics 1.

Date	Contents	Comments/ Remarks
16-20 May	**Algebraic methods** **Students will know how to solve:** 1.1 ALGEBRAIC FRACTIONS 1.2 DIVIDING POLYNOMIALS 1.3 THE FACTOR THEOREM	16 May – Visakha Bucha
23-27 May	**Algebraic methods** **Students will know how to solve:** 1.4 THE REMAINDER THEOREM 1.5 MATHEMATICAL PROOF 1.6 METHODS OF PROOF	
30 May – 3 June	**Coordinate geometry in the (x,y) plane:** **Students will be able to find:** 2.1 MIDPOINTS AND PERPENDICULAR BISECTORS 2.2 EQUATION OF A CIRCLE 2.3 INTERSECTIONS OF STRAIGHT LINES AND CIRCLES	3 June – Queen's Birthday
6-10 June	**Coordinate geometry in the (x,y) plane** **Students will be able to know how to:** 2.4 USE TANGENT AND CHORD PROPERTIES 2.5 CIRCLES AND TRIANGLES	
13-17 June	**Trigonometric identities and equations** **Students will be able to know how to use:** 3.1 EXPONENTIAL FUNCTIONS 3.2 LOGARITHMS 3.3 LAWS OF LOGARITHMS	
20-24 June	**Trigonometric identities and equations** **Students will be:** 3.4 SOLVING EQUATIONS USING LOGARITHMS 3.5 CHANGING THE BASE OF A LOGARITHM	
27 June – 1 July	**The Binomial expansion** **Students will be solving:** 4.1 PASCAL'S TRIANGLE 4.2 FACTORIAL NOTATION 4.3 THE BINOMIAL EXPANSION **The Binomial expansion** **Students will be:** 4.4 SOLVING BINOMIAL PROBLEMS 4.5 BINOMIAL ESTIMATION	
4-8 July	**Sequences and series** **Students will be able to solve:** 5.1 ARITHMETIC SEQUENCES 5.2 ARITHMETIC SERIES 5.3 GEOMETRIC SEQUENCES 5.4 GEOMETRIC SERIES	
11-15 July	**Sequences and series** **Students will be able to:** 5.5 SUM TO INFINITY 5.6 SIGMA NOTATION 5.7 RECURRENCE RELATIONS 5.8 MODELLING WITH SERIES	Jul 13-15 Asalha Bucha / Bhuddist Lent Holidays
18-22 July	**Trigonometric identities and equations** **Students will be able to calculate:** 6.1 ANGLES IN ALL FOUR QUADRANTS 6.2 EXACT VALUES OF TRIGONOMETRICAL RATIOS 6.3 TRIGONOMETRIC IDENTITIES	
25-29 July	**Trigonometric identities and equations** **Students will be able to calculate:** 6.4 SOLVE SIMPLE TRIGONOMETRIC EQUATIONS 6.5 HARDER TRIGONOMETRIC EQUATIONS 6.6 EQUATIONS AND IDENTITIES	Jul 28-29 King's Birthday
1-5 Aug. **8-12 Aug.**	**Differentiation** **Students will identify:** 7.1 INCREASING AND DECREASING FUNCTIONS 7.2 STATIONARY POINTS	Aug 12 – Queen's Birthday
15-19 Aug.	**Differentiation** **Students will identify:** 7.3 SKETCHING GRADIENT FUNCTIONS 7.4 MODELLING WITH DIFFERENTIATION	
22-26 Aug.	**Catch up with Assignments and review work.**	
29 Aug. – 2 Sept.	**Integration** **Students will be able to:** 8.1 DEFINITE INTEGRALS 8.2 AREAS UNDER CURVES 8.3 AREAS UNDER THE x-AXIS	
5-9 Sept.	**Integration** **Students will be able to:** 8.4 AREAS BETWEEN CURVES AND LINES 8.5 AREAS BETWEEN TWO CURVES 8.6 THE TRAPEZIUM RULE	
12-16 Sept.	**Review all chapters and catch up with incomplete assignments**	
19-23 Sept	**Prepare for exams**	

Bangkok Christian College English Immersion Program
Course Scope for Mathematics for Business Mathayom 6 - 614
Semester 1/2025-2026 Teacher Vincent Illison

Date	Contents	Comments/ Remarks
16-20 May	**Algebra- Simultaneous equations.** Students can solve simultaneous equations by rearranging equations in the form $ax + by = c$. They match up coefficients either "x" or "y" sometimes by multiplying one or both equations to get one of the coefficients the same value. They then add or subtract the equations to eliminate the terms with the same coefficient. They then substitute back into one of the equations to find the missing coefficient value. Students can also solve quadratic and linear equations by substitution methods.	24 Oct – Chulalongkorn Day
23-27 May	**Algebra-Functions** Students will know that a function takes an input, processes it and outputs a value. How to write functions such as $f(x) = 5x + 2$ or $f : x \rightarrow 5x + 2$. Students will substitute values into functions such as $f(2)$ or $f(-3)$. They will use composite functions and inverse functions.	
30 May – 3 June	**Algebra-straight line graphs.** Students will plot and identify straight line equations using horizontal and vertical axes. They'll recognize the gradient is the steepness of the line, which can be positive or negative. Use the formula to find the Gradient. Students will use the formula $y = mx + c$, to find the gradient and the y – intercept. They can also find the equation of the line through two points. Students will draw graphs through the use of tables.	
6-10 June	**Shape and space- Parallel and Perpendicular lines.** Students will know that all Parallel lines have the same Gradient. The "m" value is the same. Students will know the Perpendicular lines cross at a right angles, and if you multiply their gradients together you'll get -1	
13-17 June	**Algebra-Quadratic graphs.** Students will plot graphs from using tables and recognize the properties of $y = x^2$graphs. They will recognize turning points and x intercepts with their coordinates. Students will plot graphs use the x^3 function through tables.	
20-24 June	**Algebra-Real life graphs.** Students will read information from graphs, such as distance-time, gradient = speed, flat sections where they've stopped, the steeper the graph the faster they're going and if the gradient is negative, it's coming back.	
27 June – 1 July	**Algebra- Ratios.** Students will write ratios as fractions. They will reduce ratios to its simplest form. Students will use calculator functions to solve ratios. They can use 1:n or n:1 to solve ratios. Students can calculate quantities once they've found 1 part.	5 Dec – King Bhumibol Birthday

4-8 July	**Algebra-Direct and Inverse proportion.** Students will know when: Two quantities, A and B, are in direct proportion (or just in proportion) if increasing one increases the other one proportionally. So if quantity A is doubled (or trebled, halved, etc.), so is quantity B. They will also know when: Two quantities, C and D, are in inverse proportion if increasing one quantity causes the other quantity to decrease proportionally. So if quantity C is doubled (or tripled, halved, etc.), quantity D is halved (or divided by 3, doubled etc.).	12 Dec – Constitution Day
11-15 July	**Number- Percentages** Students will be able to convert from percentages to fractions and decimals. They will be able to find the new amount after a percentage increase/decrease. Students will be able to find the original amount.	23 Dec – Class Christmas Parties
18-22 July	**Number- Percentages** Students will be able to convert from percentages to fractions and decimals. They will be able to find the new amount after a percentage increase/decrease. Express "x" as a percentage of "y". Students will find the percentage change. They will also find the original value. Students will calculate simple interest and compound interest.	26 – 30 Dec. Christmas Holiday
25-29 July	**Shape and space-Unit conversion.** Students will convert between metric and imperial units. They will be able to convert area and volume. They will learn formulae for speed, density and pressure.	2 Jan – New Year Observed
1-5 Aug.	**Shape and space-Geometry** Students will learn all angle facts. They will also learn about angles around parallel lines. Students will understand alternate, allied and corresponding angles. They will understand about regular and irregular polygons. Calculate interior and exterior angles. Students will understand the properties of triangles and quadrilaterals. Learn about congruent shapes.	16 Jan – Teacher's Day
8-12 Aug.	**Shape and space-The four transformations.** Students will understand translation, rotation, reflection and enlargement. They can use vectors when moving shapes. Students can describe rotations, by using angle rotation, direction of rotation and centre of rotation. They will reflect shapes through an equation and mirror line. Students will enlarge shapes using scale factor and centre of enlargement.	
15-19 Aug.	**Shape and space-Areas of triangles, Quadrilaterals and Circles.** Students will learn and use the formulae to solve problems. They will calculate circumference and areas of circles. Students will also find areas of Segments and sectors.	
22-26 Aug.	**Shape and space-3D Shapes- Surface area and Volume.** Students will recognize vertices, faces and edges of 3D shapes. They will recognize and use formulae for Spheres, cones and cylinders. Students will calculate volumes of prisms.	

29 Aug. – 2 Sept. **5-9 Sept.**	**Shape and space-Triangle construction and loci.** Students will construct sides and angles using a ruler and protractor. They will use loci and the locus of points which are a fixed distance from a given point, a fixed distance from a given line, equidistance from two given lines and equidistance from two given points.	
12-16 Sept. **19-23 Sept**	**Finals**	20 – 23 Feb. Final Exams

Bangkok Christian College English Immersion Program

Course Scope for Project Science Science and Technology Mathayom 6

Semester 1/2025-2026 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
12 - 16 May	As Level Physics Topic 1: Further Mechanics. Pg 8-22. Review Momentum, Collisions, Energy in collisions and real collisions. Introduce Project 1: Angular displacement	
19 - 23 May	As Level Physics Topic 1: Further Mechanics (continued) Pg 25-31. Circular Motion. Angular displacement, centripetal force, motion in amusement parks. (Worksheet 1: Questions from 1.1 and 1.2)	
26 – 30 May	More examples of rpm and radians calculations. Project 1: Create a device that exhibits motion and angular displacement. Groups are expected to demonstrate. Some class time given to prepare **+ Test 1.**	
2 – 6 June	Discussion on use of angular displacement in space to create zero gravity, Past paper practice (High Tier) on the topic and Presentation of Projects. **Project 1 due**	
9 – 13 June	As Level Physics Topic 3: Particle Physics. Intro (76-82) Looking at matter. The origins of how atoms were conceived, different advancements, electrons from atoms.	
16 – 20 June	Video/Online **Quiz 1**: Reviewing how particles are made (quarks, neutrinos, positrons, protons made of 2 upquarks and a down to create +1, neutrons made up of 2 downs and an up to create 0)…expanding on our ideas of the known world.	
23 – 27 June	As Level Physics Topic 3: Partical accelerators: (pg 85-94) Usages in medical (radioactive isotopes) and the LHC (Large Hadron Collider) Relevance to future technologies **Test 2.**	
30 June - 4 July	Start of Particle interaction and expand on creation, the bricks of matter and get to the standard model. Review for grade feedback and past papers on the particle physics.	
7 - 11 July	Review Topics 1 and 3: Time for outstanding work/projects. +Midterms	
14 -18 July	Reviewing Topic 3 and relating this to A level Topic 7 Astrophysics.(170-196) How a neutron star is formed, how stars are formed through particle interactions.	
21 – 25 July	7.1 Gravitational fields; (172-178) Worksheet 2: Gravity and its effects on possible colonization efforts. How the body interacts with gravity.	
28 July- 1 August	A level Topic 7 continued: 7.2 Starshine, (pg 175-181) expanding on stellar properties, classifying stars, Debate: Are we/Should we colonize other planets? (Also look at star naming sites)	
4 - 8 August	7.3 Hubble's law. Distances of stars using the Doppler effect, the age of the universe and future. Video **Quiz 2**: The birth and death of the universe and how the big bang is controversial. (FermiLabs)	
11 – 15 August	Past papers on Topics 7.1, 7.2 and 7.3 and **Test 3** Introduce Project 2:Space Advancement/Patents	
18 - 22 August	Project 2: Space Advancements, Patents and Future adaptations. Presentations and discussion on research funding for these ideas. Is space research better done by companies or by governments.	
25 - 29 August	Following current space efforts: Artemis program, New Gateway station, India and Japanese programs, the fate of the ISS, the fate of the Hubble telescope, the James Webb Telescopes achievements and the coming of the Nancy Grace Telescope.	
1 - 5 September	Prep + Mock Exam on Topics 1 (Further Mechanics), 3 (Particle Physics), and 7 (Astrophysics) (**Test 4)**	
8 - 12 September	Feedback from mock exam +Review of all topics and getting late work completed, plus counseling on scores.	
15 -19 September	Final Exams on all topics	

Bangkok Christian College English Immersion Program

Course Scope for Physics Mathayom 6

Semester 1/2025-2026 Teacher Nicholas Barrett

Date	Contents	Comments/ Remarks
12 - 16 May	Magnetic fields and interactions	
19 - 23 May	Induced magnetism	
26 – 30 May	Experiment: The interactions of ferromagnetic material	
2 – 6 June	Electromagnetism	
9 – 13 June	Forces on a current-carrying wire	
16 – 20 June	Electric Motors	
23 – 27 June	Electromagnetic Induction	
30 June - 4 July	Faraday's Law	
7 - 11 July	Lenz's Law	
14 -18 July	Generators	
21 – 25 July	Transformers	
28 July- 1 August	Experiment: Electromagnetic effects of Motors and Generators	
4 - 8 August	Test: Electromagnetism and Induction	
11 – 15 August	Electrostatic interactions and the triboelectric effect	
18 - 22 August	The triboelectric effect	
25 - 29 August	Coulomb's law and Electric fields	
1 - 5 September	Maxwell's equations and the unifying concept of electromagnetism	
8 - 12 September	Quantum Physics introduction, featuring the general form of Faraday's law	
15 -19 September	Final Exam	

Bangkok Christian College English Immersion Program

Course Scope for Chemistry Mathayom 6

Semester 1/2025-2026 Teacher Sep Alamouti

Date	Contents	Comments/ Remarks
12 - 16 May	**Intro: Classroom Rules & Semester Plan** **Identify and explain** key classroom rules and expectations for behavior, participation, and academic integrity. **Demonstrate respect** for peers, teachers, and the learning environment through appropriate classroom conduct. **Follow established procedures** for asking questions, submitting assignments, and participating in discussions. **Understand the consequences** of not	**Content and Assessment:** Classroom Rules Handouts Chemistry Lab SOP Handout
19 - 23 May	**Topic 6 : Organic Chemistry** **6.1 – Hydrocarbons** **know** that a hydrocarbon is a compound of hydrogen and carbon only **understand** how to represent organic molecules using empirical formulae, molecular formulae, general formulae, structural formulae and displayed formulae **know** what is meant by the terms homologous series, functional group and isomerism **understand** how to name compounds relevant to this specification using the rules of International Union of Pure and Applied Chemistry (IUPAC) nomenclature ****learners will be expected to name compounds containing up to six carbon atoms **understand** how to write the possible structural and displayed formulae of an organic molecule given its molecular formula **understand** how to classify reactions of organic compounds as substitution, addition and combustion *knowledge of reaction mechanisms is not required	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 255-267 Required Problems: 1-5 (pages 265-267) **Revision Textbook:** 118-122 **Lab Book:** N/A **Formative Assessments:** Hydrocarbons **Exam Style Questions**
26 – 30 May	**Topic 6 : Organic Chemistry** **6.2 - Alkanes - Properties & Combustion** **know** the general formula for alkanes **explain** why alkanes are classified as saturated hydrocarbons **explain** why alkenes are classified as unsaturated hydrocarbons **describe** the reactions of alkanes with halogens in the presence of ultraviolet radiation, limited to mono-substitution ****knowledge of reaction mechanisms is not required **know** that a fuel is a substance that, when burned, releases heat energy	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 277-281 Required Problems: 1-4 (pages 281) **Revision Textbook:** 125-127

	know the possible products of complete and incomplete combustion of hydrocarbons with. oxygen in the air	**Lab Book:** N/A **Formative Assessments:** Alkanes - Properties & Combustion **Exam Style Questions**
2 – 6 June	**Topic 6 : Organic Chemistry** **6.3 – Crude Oil & Fractional Distillation** **know** that crude oil is a mixture of hydrocarbons **describe** how the industrial process of fractional distillation separates crude oil into fractions **know** the names and uses of the main fractions obtained from crude oil: refinery gases, gasoline, kerosene, diesel, fuel oil and bitumen **know** the trend in colour, boiling point and viscosity of the main fractions **know** that a fuel is a substance that, when burned, releases heat energy **know** the possible products of complete and incomplete combustion of hydrocarbons with. oxygen in the air	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 268-276 Required Problems: 1-4 (pages 275-276) **Revision Textbook:** 122-123 **Lab Book:** N/A **Formative Assessments:** Crude Oil & Fractional Distillation **Exam Style Questions**
9 – 13 June	**Topic 6 : Organic Chemistry** **6.4 - Cracking & Alkenes** **describe** how long-chain alkanes are converted to alkenes and shorter-chain alkanes by catalytic cracking (using silica or alumina as the catalyst and a temperature in the range of 600–700 ºC) **explain** why cracking is necessary, in terms of the balance between supply and demand for different fractions	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 282-286 Required Problems: 1-4 (pages 275-276) **Revision Textbook:** 128-129 **Lab Book:** N/A **Formative Assessments:** Cracking & Alkenes

		Exam Style Questions
16 – 20 June	**Topic 6 : Organic Chemistry** **6.5 - Air Pollution** **know** the possible products of complete and incomplete combustion of hydrocarbons with oxygen in the air" **understand** why carbon monoxide is poisonous, in terms of its effect on the capacity of blood to transport oxygen *** references to haemoglobin are not required **know** that, in car engines, the temperature reached is high enough to allow nitrogen and oxygen from air to react, forming oxides of nitrogen **explain** how the combustion of some impurities in hydrocarbon fuels results in the formation of sulfur dioxide **understand** how sulfur dioxide and oxides of nitrogen contribute to acid rain **Unit Test 1**	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 125, Required Problems: 1-4 (pages 275-276) **Revision Textbook:** **Lab Book:** N/A **Formative Assessments:** Air Pollution **Exam Style Questions**
23 – 27 June	**Topic 6 : Organic Chemistry** **6.6 – Alkenes-Reaction of Alkenes** **know** that alkenes contain the functional group >C=C< **know** the general formula for alkenes **explain** why alkenes are classified as unsaturated hydrocarbons **understand** how to draw the structural and displayed formulae for alkenes with up to four carbon atoms in the molecule, and name the unbranched-chain isomers **knowledge** of cis/trans or E/Z notation is not required" **describe** the reactions of alkenes with bromine to produce dibromoalkanes **describe** how bromine water can be used to distinguish between an alkane and an alkene	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 282-286 Required Problems: 1-4 (pages 275-276) **Revision Textbook:** 128-129 **Lab Book:** N/A **Formative Assessments:** Alkenes-Reaction of Alkenes **Exam Style Questions**
30 June - 4 July	**Topic 6 : Organic Chemistry** **6.7 – Alcohols** **know** that alcohols contain the functional group −OH **understand** how to draw structural and displayed formulae for methanol, ethanol, propanol (propan-1-ol only) and butanol (butan-1-ol only), and name each compound ****the names propanol and butanol are acceptable"	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 287-292 Required Problems: 1-2 (pages 282)

	know that ethanol can be oxidised by: • burning in air or oxygen (complete combustion) • reaction with oxygen in the air to form ethanoic acid (microbial oxidation) • heating with potassium dichromate(VI) in dilute sulfuric acid to form ethanoic acid"	**Revision Textbook:** 132-134 **Lab Book:** N/A **Formative Assessments:** Alcohols **Exam Style Questions**
7 - 11 July	**Topic 6 : Organic Chemistry** **6.8 - Production of Ethanol** **Know** that ethanol can be manufactured by: • reacting ethene with steam in the presence of a phosphoric acid catalyst at atemperature of about 300 ºC and a pressure of about 60–70 atm • the fermentation of glucose, in the absence of air, at an optimum temperature of about 30 ºC and using the enzymes in yeast **Understan**d the reasons for fermentation, in the absence of air, and at an optimum temperature **Unit Test 2**	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 287-292 Required Problems: 1-2 (pages 292) **Revision Textbook:** 132-134 **Lab Book:** N/A **Formative Assessments:** Production of Ethanol **Exam Style Questions**
14 -18 July	**Topic 6 : Organic Chemistry** **6.9 - Carboxylic Acids** **know** that carboxylic acids contain the functional group **understan**d how to draw structural and displayed formulae for unbranched-chain carboxylic acids with up to four carbon atoms in the molecule, and name each compound" **describe** the reactions of aqueous solutions of carboxylic acids with metals and metal carbonates" **know** that vinegar is an aqueous solution containing ethanoic acid	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 293-296 Required Problems: 1-2 (pages 295-296) **Revision Textbook:** 135-136 **Lab Book:** N/A **Formative Assessments:** Carboxylic Acids **Exam Style Questions**
21 – 25 July	**Topic 6 : Organic Chemistry** **6.10 – Esters** **know** that esters contain the functional group **know** that ethyl ethanoate is the ester produced when ethanol and ethanoic acid react in the presence of an acid catalyst **understand** how to write the structural and displayed formulae of ethyl ethanoate	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 297-301 Required Problems: 1-4 (pages 301)

	understand how to write the structural and displayed formulae of an ester, given the name or formula of the alcohol and carboxylic acid from which it is formed and vice versa" **know** that esters are volatile compounds with distinctive smells and are used as food flavourings and in perfumes	**Revision Textbook:** 137 **Lab Book:** N/A **Formative Assessments:** Esters **Exam Style Questions**
28 July- 1 August	**Topic 6 : Organic Chemistry** **6.11 - Addition Polymers** **know** that an addition polymer is formed by joining up many small molecules called monomers" **understand** how to draw the repeat unit of an addition polymer, including poly(ethene), poly(propene), poly(chloroethene) and (poly)tetrafluoroethene" **understand** how to deduce the structure of a monomer from the repeat unit of an addition polymer and vice versa" **explain** problems in the disposal of addition polymers, including: • their inertness and inability to biodegrade • the production of toxic gases when they are burned."	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 302-312 Required Problems: 1-5 (pages 311-312) **Revision Textbook:** 140-141 **Lab Book:** N/A **Formative Assessments:** Addition Polymers **Exam Style Questions**
4 - 8 August	**Topic 6 : Organic Chemistry** **6.12 - Condensation Polymers** **know** that condensation polymerisation, in which a dicarboxylic acid reacts with a diol, produces a polyester and water **understand** how to write the structural and displayed formula of a polyester, showing the repeat unit, given the formulae of the monomers from which it is formed including the reaction of ethanedioic acid and ethanediol **know** that some polyesters, known as bio polyesters, are biodegradable	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 302-312 Required Problems: 1-5 (pages 311-312) **Revision Textbook:** 142 **Lab Book:** N/A **Formative Assessments:** Condensation Polymers **Exam Style Questions**
11 – 15 August	**Topic 6 : Organic Chemistry** **Unit Test 3**	**Content and Assessment:** **Topic 3 Test Review Sheet** **Test Review Activities:** • Review keywords relating to the previous topics. • Multiple-choice questions to review prior knowledge. • Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. • Modelling how to answer questions. Students mark exemplar work using mark schemes.
18 - 22 August	**Topic 6 : Organic Chemistry** ***practical: prepare a sample of an ester such as ethyl ethanoate***	**Content and Assessment:** **IGCSE Chemistry Student Textbook:**

		Pages 297-301 Required Problems: 1-4 (pages 301) **Revision Textbook:** **Lab Book:** Pages 69-73 **Formative Assessments:** prepare a sample of an ester such as ethyl ethanoate **Exam Style Questions**
25 - 29 August	**Topic 6 : Organic Chemistry** ***practical: prepare a sample of an ester such as ethyl ethanoate***	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 297-301 Required Problems: 1-4 (pages 301) **Revision Textbook:** **Lab Book:** Pages 69-73 **Formative Assessments:** prepare a sample of an ester such as ethyl ethanoate **Exam Style Questions**
1 - 5 September	**Topic 6 : Organic Chemistry** ***practical: prepare a sample of an ester such as ethyl ethanoate***	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 297-301 Required Problems: 1-4 (pages 301) **Revision Textbook:** **Lab Book:** Pages 69-73 **Formative Assessments:** prepare a sample of an ester such as ethyl ethanoate **Exam Style Questions**
8 - 12 September	**Topic 6 : Organic Chemistry** **Semester Review**	**Content and Assessment:** **Semester Review** **Review Activities:** • Review keywords relating to the topics.

		• Multiple-choice questions to review prior knowledge. • Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. • Modelling how to answer questions. Students mark exemplar work using mark schemes.
15 -19 September	**Final Exam Week**	----------

Bangkok Christian College English Immersion Program

Course Scope for Biology Mathayom 6

Semester 1/2025-2026 Teacher Rick Reinders

Date	Contents	Comments/ Remarks
12 - 16 May	Introduction lesson (Teams, Onenote, teacher, rules, etc)	
19 - 23 May	Digestive and Excretory Systems, Nutrients, 7 classes of nutrients, organic nutrients, vitamins, minerals, and water	
26 – 30 May	Research nutrients and diet	
2 – 6 June	Malnourishment (3 types)	
9 – 13 June	Malnutrition Project: Beriberi, Osteoporosis, Rickets, Kwashiorkor	
16 – 20 June	Malnutrition Project: Beriberi, Osteoporosis, Rickets, Kwashiorkor	
23 – 27 June	Digestive System, Alimentary Canal, Oral Cavity, Pharynx and Esophagus	
30 June - 4 July	Digestive System, Stomach: mechanical and chemical digestion of food	
7 - 11 July	Digestive System, Liver, Gallbladder, Pancreas, Small Intestine, Large Intestine	
14 -18 July	Urinary System, Excretory organs, The Renal System	
21 – 25 July	Urinary System, Structure of Kidneys, Nephrons, water regulation	
28 July- 1 August	Urinary System, Elimination of Urine	
4 - 8 August	Laboratory: Kidney dissection	
11 – 15 August	Excretory Project, Comparison human excretory system with another organism	
18 - 22 August	Reproductive System: Mitosis and Meiosis, Spermatogenesis, Oogenesis, Hormones, Fertilization	
25 - 29 August	Male Reproductive System, Anatomy, Scrotum, Testes, Structure of Sperm cells, Epididymis, Vas Deferens, Seminal Vesicles, Glands, Urethra – Penis	
1 - 5 September	The Female Reproductive System, ovaries, fallopian tubes, uterus, and vagina, mammary glands, hormones involved in lactation. the menstrual, endometrium.	
8 - 12 September	Gestation, fertilization, cleavage, implantation, pregnancy, embryo during pregnancy, the effects of unnecessary drug use on development	
15 -19 September	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for Computer Studies Mathayom 6

Semester 1/2025-2026 Teacher James Cookson

Date	Contents	Comments/ Remarks
12 - 16 May	Introduction to A.I. for Programming	
19 - 23 May	HTML + CSS review	
26 – 30 May	AI with HTML + CSS	
2 – 6 June	JavaScript Fundamentals Review 1	
9 – 13 June	JavaScript Fundamentals Review 2	
16 – 20 June	AI with JavaScript 1	
23 – 27 June	AI with JavaScript 2	
30 June - 4 July	Midterm Project	
7 - 11 July	Introduction to React	
14 -18 July	Building Simple Interfaces with React	
21 – 25 July	AI with React 1	
28 July- 1 August	AI with React 2	
4 - 8 August	Introduction to Node.js	
11 – 15 August	Basic RESTful API with Node.js	
18 - 22 August	AI with Node.js 1	
25 - 29 August	AI with Node.js 2	
1 - 5 September	Final AI Full Stack Project	
8 - 12 September	Final AI Full Stack Project	
15 -19 September	Final AI Full Stack Project	

Bangkok Christian College English Immersion Program

Course Scope for Health and Physical Education Mathayom 6

Semester 1/2025-2026 Teacher Benjamin Peter Fishman

Date	Contents	Comments/ Remarks
12 - 16 May	Teacher Introduction	
19 - 23 May	Course Theme Introduction	
26 – 30 May	Biodata collection week	
2 – 6 June	Football scrimmage	
9 – 13 June	Football fast break drills	
16 – 20 June	Football 1st touch control drills	
23 – 27 June	Football footwork drills	
30 June - 4 July	Football corner kicks drill	
7 - 11 July	Football formations overview	
14 -18 July	Nutrition Lesson	
21 – 25 July	Nutrition quiz	
28 July- 1 August	Combat sports overview	
4 - 8 August	Boxing footwork drills	
11 – 15 August	Boxing drills	
18 - 22 August	Local Sports project intro	
25 - 29 August	Local Sports project	
1 - 5 September	Local Sports project presentation	
8 - 12 September	Course theme debrief	
15 -19 September	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for Literature Studies Mathayom 6

Semester 1/2025-2026 Teacher George (Djurdje) Spasojevic

Date	Contents	Comments/ Remarks
12 - 16 May	Semester outline and class expectations. Getting to know the students.	12 May Visakha Bucha
19 - 23 May	Maritas Bargain by Malcolm Gladwell.	
26 - 30 May	Central ideas in Maritas Bargain.	
2 - 6 June	Central ideas and text analysis in Maritas Bargain.	Queen's Birthday 2-3 June
9 – 13 June	Marita's Bargain Test.	
16 – 20 June	Don't Eat the Fortunes Cookie, speech by Michael Lewis.	
22 – 27 June	Don't Eat the Fortunes Cookie, speech by Michael Lewis.	
30 June - 4 July	Pair activity for the speech. Analysis.	
7 - 11 July	Writing activity.	10 July Asalha Bucha
14 - 18 July	The Secret to Raising Smart Kids, by Carol S. Dweck. Reading	
21 – 25 July	The Secret to Raising Smart Kids, by Carol S. Dweck. Reading	
28 July - 1 August	Analyze and evaluate the structure.	28 July King's Birthday
4 - 8 August	Analyze and evaluate the structure.	
11 – 15 August	Determine the meaning of words and phrases as they are used in a text.	12 August Mother's Day
18 - 22 August		
25 - 29 August	M6 Final project – Literary Analysis	
1 - 5 September	M6 Final project – Literary Analysis	
8 - 12 September	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for Current World Events Mathayom 6

Semester 1/2025-2026 Teacher Andrew Hailstone

Date	Contents	Comments/ Remarks
12 - 16 May	Analysis of own individual political beliefs and positions	12 May Visakha Bucha
19 - 23 May	Analysis of classical Left-wing positions	
26 - 30 May	Analysis of classical Right-wing positions	
2 - 6 June	Analysis of classical centre positions	Queen's Birthday 2-3 June
9 – 13 June	Test of political positions ideas	
16 – 20 June	Group work; whereby they team up with students with as similar positions as them as is possible	
22 – 27 June	Group work development of political manifesto for their political party for the election exercise	
30 June - 4 July	Group work development of political manifesto for their political party for the election exercise	
7 - 11 July	Group work development of political manifesto for their political party for the election exercise	10 July Asalha Bucha
14 - 18 July	Election analysis of the group work	
21 – 25 July	Analysis of the situation in Syria and its origins	
28 July - 1 August	Analysis of the situation in Syria and its origins	28 July King's Birthday
4 - 8 August	Introduction of the concepts of empathy and sympathy	
11 – 15 August	Analysis of student's responses regarding pictures from the Syrian conflict and the elicitation of sympathy/empathy	12 August Mother's Day
18 - 22 August	Analysis of student's responses regarding pictures from the Syrian conflict and the elicitation of sympathy/empathy	
25 - 29 August	Analysis of student's responses regarding pictures from the Syrian conflict and the elicitation of sympathy/empathy	
1 - 5 September	Analysis of student's responses regarding pictures from the Syrian conflict and the elicitation of sympathy/empathy	
8 - 12 September	Test on positions and review	
	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for Reading News Mathayom 6

Semester 1/2025-2026 Teacher Andrew Hailstone

Date	Contents	Comments/ Remarks
12 - 16 May	Topical News Media Story Analysis, note taking and then answering questions.	12 May Visakha Bucha
19 - 23 May	Topical News Media Story Analysis, note taking and then answering questions.	
26 - 30 May	Topical News Media Story Analysis, note taking and then answering questions.	
2 - 6 June	Topical News Media Story Analysis, note taking and then answering questions.	Queen's Birthday 2-3 June
9 – 13 June	Topical News Media Story Analysis, note taking and then answering questions.	
16 – 20 June	Topical News Media Story Analysis, note taking and then answering questions.	
22 – 27 June	Topical News Media Story Analysis, note taking and then answering questions.	
30 June - 4 July	Topical News Media Story Analysis, note taking and then answering questions.	
7 - 11 July	Topical News Media Story Analysis, note taking and then answering questions.	10 July Asalha Bucha
14 - 18 July	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	
21 – 25 July	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	
28 July - 1 August	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	28 July King's Birthday
4 - 8 August	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	
11 – 15 August	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	12 August Mother's Day
18 - 22 August	Choose their own Topical News Media Story that will be analyzed and then create questions and answers for the story.	
25 - 29 August	Choose their own Topical News Media Story that will be analyzed and then create questions and answers for the story.	
1 - 5 September	Choose their own Topical News Media Story that will be analyzed and then create questions and answers for the story.	
8 - 12 September	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for English Rhetoric and Composition Mathayom 6

Semester 1/2025-2026 Teacher Rick Diaz

Date	Contents	Comments/ Remarks
12 - 16 May	Course Introduction – Teams, resources, assignments, policies, and expectations	12 May Visakha Bucha
19 - 23 May	Decoding Information: Facts, Details, and Opinions	
26 - 30 May	Primary Sources – Finding and using original documents, objects, or artifacts created during the period being studied, offering a firsthand perspective	
2 - 6 June	Secondary Sources – Finding and using analyses, interpretations, or evaluations of information presented in primary sources.	Queen's Birthday 2-3 June
9 – 13 June	Summarizing Information - Identifying the main points, supporting arguments, and overall conclusion	
16 – 20 June	Paraphrasing Information - Rewording someone else's ideas or information in your own words while maintaining the original meaning	
22 – 27 June	Avoiding Plagiarism when Summarizing and Paraphrasing Citation (properly cite your sources and ensure that all borrowed ideas and wording are clearly attributed to their original author)	
30 June - 4 July	Informative Writing – Instructions: Conveying information in a way that's easily understood and followed, leading to the successfully complete a task or a desired outcome	
7 - 11 July	Informative Writing – Directions: Clear communication and anticipating the needs of your audience, guiding them from point A to point B with enough detail to avoid confusion	10 July Asalha Bucha
14 - 18 July	Persuasive Writing - Purposes of Persuasive Writing Rhetoric and Strategies - Logos, pathos and ethos	
21 – 25 July	Persuasive Writing - Effective Persuasion Essentials, Persuasive Language, Organizational Structures, Persuasive Strategies	
28 July - 1 August	Persuasive Writing - Persuasive Essays I - Text Structure of a Persuasive Essay, Structure & Language Supplementals	28 July King's Birthday
4 - 8 August	Persuasive Writing - Persuasive Essays II (Writing a persuasive essay)	
11 – 15 August	Persuasive Advertising - Qualities of a Good Ad	12 August Mother's Day
18 - 22 August	Persuasive Advertising - Propaganda Techniques in Advertising (Language, Images)	
25 - 29 August	Persuasive Advertising – Creating a persuasive Advertisement	
1 - 5 September	↑ GAP WEEK ↓ **(Movable due to unforeseen / unannounced schedule changes)** ↑May – August↓	
8 - 12 September	**Final Exam Week – Non core classes not on the testing schedule**	

Bangkok Christian College English Immersion Program
Course Scope for Chemistry Mathayom 6
Semester 1/2025-2026 Teacher Sep Alamouti

Date	Contents	Comments/ Remarks
12 - 16 May	**Intro: Classroom Rules & Semester Plan** **Identify and explain** key classroom rules and expectations for behavior, participation, and academic integrity. **Demonstrate respect** for peers, teachers, and the learning environment through appropriate classroom conduct. **Follow established procedures** for asking questions, submitting assignments, and participating in discussions. **Understand the consequences** of not	**Content and Assessment:** Classroom Rules Handouts Chemistry Lab SOP Handout
19 - 23 May	**Topic 6 : Organic Chemistry** **6.1 – Hydrocarbons** **know** that a hydrocarbon is a compound of hydrogen and carbon only **understand** how to represent organic molecules using empirical formulae, molecular formulae, general formulae, structural formulae and displayed formulae **know** what is meant by the terms homologous series, functional group and isomerism **understand** how to name compounds relevant to this specification using the rules of International Union of Pure and Applied Chemistry (IUPAC) nomenclature ******learners will be expected to name compounds containing up to six carbon atoms **understand** how to write the possible structural and displayed formulae of an organic molecule given its molecular formula **understand** how to classify reactions of organic compounds as substitution, addition and combustion *knowledge of reaction mechanisms is not required	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 255-267 Required Problems: 1-5 (pages 265-267) **Revision Textbook:** 118-122 **Lab Book:** N/A **Formative Assessments:** Hydrocarbons **Exam Style Questions**
26 – 30 May	**Topic 6 : Organic Chemistry** **6.2 - Alkanes - Properties & Combustion** **know** the general formula for alkanes **explain** why alkanes are classified as saturated hydrocarbons **explain** why alkenes are classified as unsaturated hydrocarbons **describe** the reactions of alkanes with halogens in the presence of ultraviolet radiation, limited to mono-substitution ****knowledge of reaction mechanisms is not required **know** that a fuel is a substance that, when burned, releases heat energy **know** the possible products of complete and incomplete combustion of hydrocarbons with. oxygen in the air	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 277-281 Required Problems: 1-4 (pages 281) **Revision Textbook:** 125-127 **Lab Book:** N/A **Formative Assessments:** Alkanes - Properties & Combustion **Exam Style Questions**
2 – 6 June	**Topic 6 : Organic Chemistry** **6.3 – Crude Oil & Fractional Distillation** **know** that crude oil is a mixture of hydrocarbons **describe** how the industrial process of fractional distillation separates crude oil into fractions **know** the names and uses of the main fractions obtained from crude oil: refinery gases, gasoline, kerosene, diesel, fuel oil and bitumen **know** the trend in colour, boiling point and viscosity of the main fractions **know** that a fuel is a substance that, when burned, releases heat energy **know** the possible products of complete and incomplete combustion of hydrocarbons with. oxygen in the air	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 268-276 Required Problems: 1-4 (pages 275-276) **Revision Textbook:** 122-123 **Lab Book:** N/A **Formative Assessments:** Crude Oil & Fractional Distillation **Exam Style Questions**

9 – 13 June	**Topic 6 : Organic Chemistry** **6.4 - Cracking & Alkenes** **describe** how long-chain alkanes are converted to alkenes and shorter-chain alkanes by catalytic cracking (using silica or alumina as the catalyst and a temperature in the range of 600–700 ºC) **explain** why cracking is necessary, in terms of the balance between supply and demand for different fractions	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 282-286 Required Problems: 1-4 (pages 275-276) **Revision Textbook:** 128-129 **Lab Book:** N/A **Formative Assessments:** Cracking & Alkenes **Exam Style Questions**
16 – 20 June	**Topic 6 : Organic Chemistry** **6.5 - Air Pollution** **know** the possible products of complete and incomplete combustion of hydrocarbons with oxygen in the air" **understand** why carbon monoxide is poisonous, in terms of its effect on the capacity of blood to transport oxygen *** references to haemoglobin are not required **know** that, in car engines, the temperature reached is high enough to allow nitrogen and oxygen from air to react, forming oxides of nitrogen **explain** how the combustion of some impurities in hydrocarbon fuels results in the formation of sulfur dioxide **understand** how sulfur dioxide and oxides of nitrogen contribute to acid rain **Unit Test 1**	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 125, Required Problems: 1-4 (pages 275-276) **Revision Textbook:** **Lab Book:** N/A **Formative Assessments:** Air Pollution **Exam Style Questions**
23 – 27 June	**Topic 6 : Organic Chemistry** **6.6 – Alkenes-Reaction of Alkenes** **know** that alkenes contain the functional group >C=C< **know** the general formula for alkenes **explain** why alkenes are classified as unsaturated hydrocarbons **understand** how to draw the structural and displayed formulae for alkenes with up to four carbon atoms in the molecule, and name the unbranched-chain isomers **knowledge** of cis/trans or E/Z notation is not required" **describe** the reactions of alkenes with bromine to produce dibromoalkanes **describe** how bromine water can be used to distinguish between an alkane and an alkene	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 282-286 Required Problems: 1-4 (pages 275-276) **Revision Textbook:** 128-129 **Lab Book:** N/A **Formative Assessments:** Alkenes-Reaction of Alkenes **Exam Style Questions**
30 June - 4 July	**Topic 6 : Organic Chemistry** **6.7 – Alcohols** **know** that alcohols contain the functional group −OH **understan**d how to draw structural and displayed formulae for methanol, ethanol, propanol (propan-1-ol only) and butanol (butan-1-ol only), and name each compound ****the names propanol and butanol are acceptable" **know** that ethanol can be oxidised by: • burning in air or oxygen (complete combustion) • reaction with oxygen in the air to form ethanoic acid (microbial oxidation) • heating with potassium dichromate(VI) in dilute sulfuric acid to form ethanoic acid"	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 287-292 Required Problems: 1-2 (pages 282) **Revision Textbook:** 132-134 **Lab Book:** N/A **Formative Assessments:** Alcohols **Exam Style Questions**
7 - 11 July	**Topic 6 : Organic Chemistry** **6.8 - Production of Ethanol** **Know** that ethanol can be manufactured by: • reacting ethene with steam in the presence of a phosphoric acid catalyst at atemperature of about 300 ºC and a pressure of about 60–70 atm • the fermentation of glucose, in the absence of air, at an optimum temperature of about 30 ºC and using the enzymes in yeast **Understan**d the reasons for fermentation, in the absence of air, and at an optimum temperature **Unit Test 2**	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 287-292 Required Problems: 1-2 (pages 292) **Revision Textbook:** 132-134 **Lab Book:** N/A **Formative Assessments:** Production of Ethanol **Exam Style Questions**

14 -18 July	**Topic 6 : Organic Chemistry** **6.9 - Carboxylic Acids** **know** that carboxylic acids contain the functional group **understand** how to draw structural and displayed formulae for unbranched-chain carboxylic acids with up to four carbon atoms in the molecule, and name each compound" **describe** the reactions of aqueous solutions of carboxylic acids with metals and metal carbonates" **know** that vinegar is an aqueous solution containing ethanoic acid	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 293-296 Required Problems: 1-2 (pages 295-296) **Revision Textbook:** 135-136 **Lab Book:** N/A **Formative Assessments:** Carboxylic Acids **Exam Style Questions**
21 – 25 July	**Topic 6 : Organic Chemistry** **6.10 – Esters** **know** that esters contain the functional group **know** that ethyl ethanoate is the ester produced when ethanol and ethanoic acid react in the presence of an acid catalyst **understand** how to write the structural and displayed formulae of ethyl ethanoate **understand** how to write the structural and displayed formulae of an ester, given the name or formula of the alcohol and carboxylic acid from which it is formed and vice versa" **know** that esters are volatile compounds with distinctive smells and are used as food flavourings and in perfumes	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 297-301 Required Problems: 1-4 (pages 301) **Revision Textbook:** 137 **Lab Book:** N/A **Formative Assessments:** Esters **Exam Style Questions**
28 July- 1 August	**Topic 6 : Organic Chemistry** **6.11 - Addition Polymers** **know** that an addition polymer is formed by joining up many small molecules called monomers" **understand** how to draw the repeat unit of an addition polymer, including poly(ethene), poly(propene), poly(chloroethene) and (poly)tetrafluoroethene" **understand** how to deduce the structure of a monomer from the repeat unit of an addition polymer and vice versa" **explain** problems in the disposal of addition polymers, including: • their inertness and inability to biodegrade • the production of toxic gases when they are burned."	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 302-312 Required Problems: 1-5 (pages 311-312) **Revision Textbook:** 140-141 **Lab Book:** N/A **Formative Assessments:** Addition Polymers **Exam Style Questions**
4 - 8 August	**Topic 6 : Organic Chemistry** **6.12 - Condensation Polymers** **know** that condensation polymerisation, in which a dicarboxylic acid reacts with a diol, produces a polyester and water **understand** how to write the structural and displayed formula of a polyester, showing the repeat unit, given the formulae of the monomers from which it is formed including the reaction of ethanedioic acid and ethanediol **know** that some polyesters, known as bio polyesters, are biodegradable	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 302-312 Required Problems: 1-5 (pages 311-312) **Revision Textbook:** 142 **Lab Book:** N/A **Formative Assessments:** Condensation Polymers **Exam Style Questions**
11 – 15 August	**Topic 6 : Organic Chemistry** **Unit Test 3**	**Content and Assessment:** **Topic 3 Test Review Sheet** **Test Review Activities:** • Review keywords relating to the previous topics. • Multiple-choice questions to review prior knowledge. • Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. • Modelling how to answer questions. Students mark exemplar work using mark schemes.
18 - 22 August	**Topic 6 : Organic Chemistry** ***practical: prepare a sample of an ester such as ethyl ethanoate***	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 297-301 Required Problems: 1-4 (pages 301) **Revision Textbook:** **Lab Book:** Pages 69-73 **Formative Assessments:** prepare a sample of an ester such as ethyl ethanoate **Exam Style Questions**

25 - 29 August	**Topic 6 : Organic Chemistry** ***practical: prepare a sample of an ester such as ethyl ethanoate***	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 297-301 Required Problems: 1-4 (pages 301) **Revision Textbook:** **Lab Book:** Pages 69-73 **Formative Assessments:** prepare a sample of an ester such as ethyl ethanoate **Exam Style Questions**
1 - 5 September	**Topic 6 : Organic Chemistry** ***practical: prepare a sample of an ester such as ethyl ethanoate***	**Content and Assessment:** **IGCSE Chemistry Student Textbook:** Pages 297-301 Required Problems: 1-4 (pages 301) **Revision Textbook:** **Lab Book:** Pages 69-73 **Formative Assessments:** prepare a sample of an ester such as ethyl ethanoate **Exam Style Questions**
8 - 12 September	**Topic 6 : Organic Chemistry** **Semester Review**	**Content and Assessment:** **Semester Review** **Review Activities:** • Review keywords relating to the topics. • Multiple-choice questions to review prior knowledge. • Re-teach previously identified challenging topics, anticipating where errors/misconceptions arise. • Modelling how to answer questions. Students mark exemplar work using mark schemes.
15 -19 September	**Final Exam Week**	**----------**

Bangkok Christian College English Immersion Program

Course Scope for Biology Mathayom 6

Semester 1/2025-2026 Teacher Rick Reinders

Date	Contents	Comments/ Remarks
12 - 16 May	Introduction lesson (Teams, Onenote, teacher, rules, etc)	
19 - 23 May	Digestive and Excretory Systems, Nutrients, 7 classes of nutrients, organic nutrients, vitamins, minerals, and water	
26 – 30 May	Research nutrients and diet	
2 – 6 June	Malnourishment (3 types)	
9 – 13 June	Malnutrition Project: Beriberi, Osteoporosis, Rickets, Kwashiorkor	
16 – 20 June	Malnutrition Project: Beriberi, Osteoporosis, Rickets, Kwashiorkor	
23 – 27 June	Digestive System, Alimentary Canal, Oral Cavity, Pharynx and Esophagus	
30 June - 4 July	Digestive System, Stomach: mechanical and chemical digestion of food	
7 - 11 July	Digestive System, Liver, Gallbladder, Pancreas, Small Intestine, Large Intestine	
14 -18 July	Urinary System, Excretory organs, The Renal System	
21 – 25 July	Urinary System, Structure of Kidneys, Nephrons, water regulation	
28 July- 1 August	Urinary System, Elimination of Urine	
4 - 8 August	Laboratory: Kidney dissection	
11 – 15 August	Excretory Project, Comparison human excretory system with another organism	
18 - 22 August	Reproductive System: Mitosis and Meiosis, Spermatogenesis, Oogenesis, Hormones, Fertilization	
25 - 29 August	Male Reproductive System, Anatomy, Scrotum, Testes, Structure of Sperm cells, Epididymis, Vas Deferens, Seminal Vesicles, Glands, Urethra – Penis	
1 - 5 September	The Female Reproductive System, ovaries, fallopian tubes, uterus, and vagina, mammary glands, hormones involved in lactation. the menstrual, endometrium.	
8 - 12 September	Gestation, fertilization, cleavage, implantation, pregnancy, embryo during pregnancy, the effects of unnecessary drug use on development	
15 -19 September	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for Physics Mathayom 6

Semester 1/2025-2026 Teacher Nicholas Barrett

Date	Contents	Comments/ Remarks
12 - 16 May	Magnetic fields and interactions	
19 - 23 May	Induced magnetism	
26 – 30 May	Experiment: The interactions of ferromagnetic material	
2 – 6 June	Electromagnetism	
9 – 13 June	Forces on a current-carrying wire	
16 – 20 June	Electric Motors	
23 – 27 June	Electromagnetic Induction	
30 June - 4 July	Faraday's Law	
7 - 11 July	Lenz's Law	
14 -18 July	Generators	
21 – 25 July	Transformers	
28 July- 1 August	Experiment: Electromagnetic effects of Motors and Generators	
4 - 8 August	Test: Electromagnetism and Induction	
11 – 15 August	Electrostatic interactions and the triboelectric effect	
18 - 22 August	The triboelectric effect	
25 - 29 August	Coulomb's law and Electric fields	
1 - 5 September	Maxwell's equations and the unifying concept of electromagnetism	
8 - 12 September	Quantum Physics introduction, featuring the general form of Faraday's law	
15 -19 September	Final Exam	

Bangkok Christian College English Immersion Program

Course Scope for Current World Events Mathayom 6

Semester 1/2025-2026 Teacher Andrew Hailstone

Date	Contents	Comments/ Remarks
12 - 16 May	Analysis of own individual political beliefs and positions	12 May Visakha Bucha
19 - 23 May	Analysis of classical Left-wing positions	
26 - 30 May	Analysis of classical Right-wing positions	
2 - 6 June	Analysis of classical centre positions	Queen's Birthday 2-3 June
9 – 13 June	Test of political positions ideas	
16 – 20 June	Group work; whereby they team up with students with as similar positions as them as is possible	
22 – 27 June	Group work development of political manifesto for their political party for the election exercise	
30 June - 4 July	Group work development of political manifesto for their political party for the election exercise	
7 - 11 July	Group work development of political manifesto for their political party for the election exercise	10 July Asalha Bucha
14 - 18 July	Election analysis of the group work	
21 – 25 July	Analysis of the situation in Syria and its origins	
28 July - 1 August	Analysis of the situation in Syria and its origins	28 July King's Birthday
4 - 8 August	Introduction of the concepts of empathy and sympathy	
11 – 15 August	Analysis of student's responses regarding pictures from the Syrian conflict and the elicitation of sympathy/empathy	12 August Mother's Day
18 - 22 August	Analysis of student's responses regarding pictures from the Syrian conflict and the elicitation of sympathy/empathy	
25 - 29 August	Analysis of student's responses regarding pictures from the Syrian conflict and the elicitation of sympathy/empathy	
1 - 5 September	Analysis of student's responses regarding pictures from the Syrian conflict and the elicitation of sympathy/empathy	
8 - 12 September	Test on positions and review	
	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for Computer Studies Mathayom 6

Semester 1/2025-2026 Teacher James Cookson

Date	Contents	Comments/ Remarks
12 - 16 May	Introduction to A.I. for Programming	
19 - 23 May	HTML + CSS review	
26 – 30 May	AI with HTML + CSS	
2 – 6 June	JavaScript Fundamentals Review 1	
9 – 13 June	JavaScript Fundamentals Review 2	
16 – 20 June	AI with JavaScript 1	
23 – 27 June	AI with JavaScript 2	
30 June - 4 July	Midterm Project	
7 - 11 July	Introduction to React	
14 -18 July	Building Simple Interfaces with React	
21 – 25 July	AI with React 1	
28 July- 1 August	AI with React 2	
4 - 8 August	Introduction to Node.js	
11 – 15 August	Basic RESTful API with Node.js	
18 - 22 August	AI with Node.js 1	
25 - 29 August	AI with Node.js 2	
1 - 5 September	Final AI Full Stack Project	
8 - 12 September	Final AI Full Stack Project	
15 -19 September	Final AI Full Stack Project	

Bangkok Christian College English Immersion Program

Course Scope for Literature Studies Mathayom 6

Semester 1/2025-2026 Teacher George (Djurdje) Spasojevic

Date	Contents	Comments/ Remarks
12 - 16 May	Semester outline and class expectations. Getting to know the students.	12 May Visakha Bucha
19 - 23 May	Maritas Bargain by Malcolm Gladwell.	
26 - 30 May	Central ideas in Maritas Bargain.	
2 - 6 June	Central ideas and text analysis in Maritas Bargain.	Queen's Birthday 2-3 June
9 – 13 June	Marita's Bargain Test.	
16 – 20 June	Don't Eat the Fortunes Cookie, speech by Michael Lewis.	
22 – 27 June	Don't Eat the Fortunes Cookie, speech by Michael Lewis.	
30 June - 4 July	Pair activity for the speech. Analysis.	
7 - 11 July	Writing activity.	10 July Asalha Bucha
14 - 18 July	The Secret to Raising Smart Kids, by Carol S. Dweck. Reading	
21 – 25 July	The Secret to Raising Smart Kids, by Carol S. Dweck. Reading	
28 July - 1 August	Analyze and evaluate the structure.	28 July King's Birthday
4 - 8 August	Analyze and evaluate the structure.	
11 – 15 August	Determine the meaning of words and phrases as they are used in a text.	12 August Mother's Day
18 - 22 August		
25 - 29 August	M6 Final project – Literary Analysis	
1 - 5 September	M6 Final project – Literary Analysis	
8 - 12 September	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for Health and Physical Education Mathayom 6

Semester 1/2025-2026 Teacher Benjamin Peter Fishman

Date	Contents	Comments/ Remarks
12 - 16 May	Teacher Introduction	
19 - 23 May	Course Theme Introduction	
26 – 30 May	Biodata collection week	
2 – 6 June	Football scrimmage	
9 – 13 June	Football fast break drills	
16 – 20 June	Football 1st touch control drills	
23 – 27 June	Football footwork drills	
30 June - 4 July	Football corner kicks drill	
7 - 11 July	Football formations overview	
14 -18 July	Nutrition Lesson	
21 – 25 July	Nutrition quiz	
28 July- 1 August	Combat sports overview	
4 - 8 August	Boxing footwork drills	
11 – 15 August	Boxing drills	
18 - 22 August	Local Sports project intro	
25 - 29 August	Local Sports project	
1 - 5 September	Local Sports project presentation	
8 - 12 September	Course theme debrief	
15 -19 September	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for Reading News Mathayom 6

Semester 1/2025-2026 Teacher Andrew Hailstone

Date	Contents	Comments/ Remarks
12 - 16 May	Topical News Media Story Analysis, note taking and then answering questions.	12 May Visakha Bucha
19 - 23 May	Topical News Media Story Analysis, note taking and then answering questions.	
26 - 30 May	Topical News Media Story Analysis, note taking and then answering questions.	
2 - 6 June	Topical News Media Story Analysis, note taking and then answering questions.	Queen's Birthday 2-3 June
9 – 13 June	Topical News Media Story Analysis, note taking and then answering questions.	
16 – 20 June	Topical News Media Story Analysis, note taking and then answering questions.	
22 – 27 June	Topical News Media Story Analysis, note taking and then answering questions.	
30 June - 4 July	Topical News Media Story Analysis, note taking and then answering questions.	
7 - 11 July	Topical News Media Story Analysis, note taking and then answering questions.	10 July Asalha Bucha
14 - 18 July	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	
21 – 25 July	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	
28 July - 1 August	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	28 July King's Birthday
4 - 8 August	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	
11 – 15 August	Topical News Media Story Analysis, note taking and then making their own questions based on the content and creating answers for the questions.	12 August Mother's Day
18 - 22 August	Choose their own Topical News Media Story that will be analyzed and then create questions and answers for the story.	
25 - 29 August	Choose their own Topical News Media Story that will be analyzed and then create questions and answers for the story.	
1 - 5 September	Choose their own Topical News Media Story that will be analyzed and then create questions and answers for the story.	
8 - 12 September	Final Exam Week	

Bangkok Christian College English Immersion Program

Course Scope for English Rhetoric and Composition Mathayom 6

Semester 1/2025-2026 Teacher Rick Diaz

Date	Contents	Comments/ Remarks
12 - 16 May	Course Introduction – Teams, resources, assignments, policies, and expectations	12 May Visakha Bucha
19 - 23 May	Decoding Information: Facts, Details, and Opinions	
26 - 30 May	Primary Sources – Finding and using original documents, objects, or artifacts created during the period being studied, offering a firsthand perspective	
2 - 6 June	Secondary Sources – Finding and using analyses, interpretations, or evaluations of information presented in primary sources.	Queen's Birthday 2-3 June
9 – 13 June	Summarizing Information - Identifying the main points, supporting arguments, and overall conclusion	
16 – 20 June	Paraphrasing Information - Rewording someone else's ideas or information in your own words while maintaining the original meaning	
22 – 27 June	Avoiding Plagiarism when Summarizing and Paraphrasing Citation (properly cite your sources and ensure that all borrowed ideas and wording are clearly attributed to their original author)	
30 June - 4 July	Informative Writing – Instructions: Conveying information in a way that's easily understood and followed, leading to the successfully complete a task or a desired outcome	
7 - 11 July	Informative Writing – Directions: Clear communication and anticipating the needs of your audience, guiding them from point A to point B with enough detail to avoid confusion	10 July Asalha Bucha
14 - 18 July	Persuasive Writing - Purposes of Persuasive Writing Rhetoric and Strategies - Logos, pathos and ethos	
21 – 25 July	Persuasive Writing - Effective Persuasion Essentials, Persuasive Language, Organizational Structures, Persuasive Strategies	
28 July - 1 August	Persuasive Writing - Persuasive Essays I - Text Structure of a Persuasive Essay, Structure & Language Supplementals	28 July King's Birthday
4 - 8 August	Persuasive Writing - Persuasive Essays II (Writing a persuasive essay)	
11 – 15 August	Persuasive Advertising - Qualities of a Good Ad	12 August Mother's Day
18 - 22 August	Persuasive Advertising - Propaganda Techniques in Advertising (Language, Images)	
25 - 29 August	Persuasive Advertising – Creating a persuasive Advertisement	
1 - 5 September	↑ GAP WEEK ↓ **(Movable due to unforeseen / unannounced schedule changes)** ↑May – August↓	
8 - 12 September	**Final Exam Week – Non core classes not on the testing schedule**	

Bangkok Christian College English Immersion Program

Course Scope for Project Science Science and Technology Mathayom 6

Semester 1/2025-2026 Teacher Steven Fournier

Date	Contents	Comments/ Remarks
12 - 16 May	As Level Physics Topic 1: Further Mechanics. Pg 8-22. Review Momentum, Collisions, Energy in collisions and real collisions. Introduce Project 1: Angular displacement	
19 - 23 May	As Level Physics Topic 1: Further Mechanics (continued) Pg 25-31. Circular Motion. Angular displacement, centripetal force, motion in amusement parks. (Worksheet 1: Questions from 1.1 and 1.2)	
26 – 30 May	More examples of rpm and radians calculations. Project 1: Create a device that exhibits motion and angular displacement. Groups are expected to demonstrate. Some class time given to prepare **+ Test 1.**	
2 – 6 June	Discussion on use of angular displacement in space to create zero gravity, Past paper practice (High Tier) on the topic and Presentation of Projects. **Project 1 due**	
9 – 13 June	As Level Physics Topic 3: Particle Physics. Intro (76-82) Looking at matter. The origins of how atoms were conceived, different advancements, electrons from atoms.	
16 – 20 June	Video/Online **Quiz 1**: Reviewing how particles are made (quarks, neutrinos, positrons, protons made of 2 upquarks and a down to create +1, neutrons made up of 2 downs and an up to create 0)…expanding on our ideas of the known world.	
23 – 27 June	As Level Physics Topic 3: Partical accelerators: (pg 85-94) Usages in medical (radioactive isotopes) and the LHC (Large Hadron Collider) Relevance to future technologies **Test 2.**	
30 June - 4 July	Start of Particle interaction and expand on creation, the bricks of matter and get to the standard model. Review for grade feedback and past papers on the particle physics.	
7 - 11 July	Review Topics 1 and 3: Time for outstanding work/projects. +Midterms	
14 -18 July	Reviewing Topic 3 and relating this to A level Topic 7 Astrophysics.(170-196) How a neutron star is formed, how stars are formed through particle interactions.	
21 – 25 July	7.1 Gravitational fields; (172-178) Worksheet 2: Gravity and its effects on possible colonization efforts. How the body interacts with gravity.	
28 July- 1 August	A level Topic 7 continued: 7.2 Starshine, (pg 175-181) expanding on stellar properties, classifying stars, Debate: Are we/Should we colonize other planets? (Also look at star naming sites)	
4 - 8 August	7.3 Hubble's law. Distances of stars using the Doppler effect, the age of the universe and future. Video **Quiz 2**: The birth and death of the universe and how the big bang is controversial. (FermiLabs)	
11 – 15 August	Past papers on Topics 7.1, 7.2 and 7.3 and **Test 3** Introduce Project 2:Space Advancement/Patents	
18 - 22 August	Project 2: Space Advancements, Patents and Future adaptations. Presentations and discussion on research funding for these ideas. Is space research better done by companies or by governments.	
25 - 29 August	Following current space efforts: Artemis program, New Gateway station, India and Japanese programs, the fate of the ISS, the fate of the Hubble telescope, the James Webb Telescopes achievements and the coming of the Nancy Grace Telescope.	
1 - 5 September	Prep + Mock Exam on Topics 1 (Further Mechanics), 3 (Particle Physics), and 7 (Astrophysics) (**Test 4)**	
8 - 12 September	Feedback from mock exam +Review of all topics and getting late work completed, plus counseling on scores.	
15 -19 September	Final Exams on all topics	

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Course Scope for Mathematics Mathayom 6
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Reviewing chapters 1-6, followed by chapters 7 and 8 to complete book 2.
This will be followed by Statistics 1.

Date	Contents	Comments/ Remarks
16-20 May	**Algebraic methods** **Students will know how to solve:** 1.1 ALGEBRAIC FRACTIONS 1.2 DIVIDING POLYNOMIALS 1.3 THE FACTOR THEOREM	16 May – Visakha Bucha
23-27 May	**Algebraic methods** **Students will know how to solve:** 1.4 THE REMAINDER THEOREM 1.5 MATHEMATICAL PROOF 1.6 METHODS OF PROOF	
30 May – 3 June	**Coordinate geometry in the (x,y) plane:** **Students will be able to find:** 2.1 MIDPOINTS AND PERPENDICULAR BISECTORS 2.2 EQUATION OF A CIRCLE 2.3 INTERSECTIONS OF STRAIGHT LINES AND CIRCLES	3 June – Queen's Birthday
6-10 June	**Coordinate geometry in the (x,y) plane** **Students will be able to know how to:** 2.4 USE TANGENT AND CHORD PROPERTIES 2.5 CIRCLES AND TRIANGLES	
13-17 June	**Trigonometric identities and equations** **Students will be able to know how to use:** 3.1 EXPONENTIAL FUNCTIONS 3.2 LOGARITHMS 3.3 LAWS OF LOGARITHMS	
20-24 June	**Trigonometric identities and equations** **Students will be:** 3.4 SOLVING EQUATIONS USING LOGARITHMS 3.5 CHANGING THE BASE OF A LOGARITHM	
27 June – 1 July	**The Binomial expansion** **Students will be solving:** 4.1 PASCAL'S TRIANGLE 4.2 FACTORIAL NOTATION 4.3 THE BINOMIAL EXPANSION **The Binomial expansion** **Students will be:** 4.4 SOLVING BINOMIAL PROBLEMS 4.5 BINOMIAL ESTIMATION	
4-8 July	**Sequences and series** **Students will be able to solve:** 5.1 ARITHMETIC SEQUENCES 5.2 ARITHMETIC SERIES 5.3 GEOMETRIC SEQUENCES 5.4 GEOMETRIC SERIES	
11-15 July	**Sequences and series** **Students will be able to:** 5.5 SUM TO INFINITY 5.6 SIGMA NOTATION 5.7 RECURRENCE RELATIONS 5.8 MODELLING WITH SERIES	Jul 13-15 Asalha Bucha / Bhuddist Lent Holidays
18-22 July	**Trigonometric identities and equations** **Students will be able to calculate:** 6.1 ANGLES IN ALL FOUR QUADRANTS 6.2 EXACT VALUES OF TRIGONOMETRICAL RATIOS 6.3 TRIGONOMETRIC IDENTITIES	
25-29 July	**Trigonometric identities and equations** **Students will be able to calculate:** 6.4 SOLVE SIMPLE TRIGONOMETRIC EQUATIONS 6.5 HARDER TRIGONOMETRIC EQUATIONS 6.6 EQUATIONS AND IDENTITIES	Jul 28-29 King's Birthday
1-5 Aug. **8-12 Aug.**	**Differentiation** **Students will identify:** 7.1 INCREASING AND DECREASING FUNCTIONS 7.2 STATIONARY POINTS	Aug 12 – Queen's Birthday
15-19 Aug.	**Differentiation** **Students will identify:** 7.3 SKETCHING GRADIENT FUNCTIONS 7.4 MODELLING WITH DIFFERENTIATION	
22-26 Aug.	**Catch up with Assignments and review work.**	
29 Aug. – 2 Sept.	**Integration** **Students will be able to:** 8.1 DEFINITE INTEGRALS 8.2 AREAS UNDER CURVES 8.3 AREAS UNDER THE x-AXIS	
5-9 Sept.	**Integration** **Students will be able to:** 8.4 AREAS BETWEEN CURVES AND LINES 8.5 AREAS BETWEEN TWO CURVES 8.6 THE TRAPEZIUM RULE	
12-16 Sept.	**Review all chapters and catch up with incomplete assignments**	
19-23 Sept	**Prepare for exams**	

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16-20 May	**Algebra- Simultaneous equations.** Students can solve simultaneous equations by rearranging equations in the form $ax + by = c$. They match up coefficients either "x" or "y" sometimes by multiplying one or both equations to get one of the coefficients the same value. They then add or subtract the equations to eliminate the terms with the same coefficient. They then substitute back into one of the equations to find the missing coefficient value. Students can also solve quadratic and linear equations by substitution methods.	24 Oct - Chulalongkorn Day
23-27 May	**Algebra-Functions** Students will know that a function takes an input, processes it and outputs a value. How to write functions such as $f(x) = 5x + 2$ or $f : x \rightarrow 5x + 2$. Students will substitute values into functions such as $f(2)$ or $f(-3)$. They will use composite functions and inverse functions.	
30 May - 3 June	**Algebra-straight line graphs.** Students will plot and identify straight line equations using horizontal and vertical axes. They'll recognize the gradient is the steepness of the line, which can be positive or negative. Use the formula to find the Gradient. Students will use the formula $y = mx + c$, to find the gradient and the y - intercept. They can also find the equation of the line through two points. Students will draw graphs through the use of tables.	
6-10 June	**Shape and space- Parallel and Perpendicular lines.** Students will know that all Parallel lines have the same Gradient. The "m" value is the same. Students will know the Perpendicular lines cross at a right angles, and if you multiply their gradients together you'll get -1	
13-17 June	**Algebra-Quadratic graphs.** Students will plot graphs from using tables and recognize the properties of $y = x^2$graphs. They will recognize turning points and x intercepts with their coordinates. Students will plot graphs use the x^3 function through tables.	
20-24 June	**Algebra-Real life graphs.** Students will read information from graphs, such as distance-time, gradient = speed, flat sections where they've stopped, the steeper the graph the faster they're going and if the gradient is negative, it's coming back.	
27 June - 1 July	**Algebra- Ratios.** Students will write ratios as fractions. They will reduce ratios to its simplest form. Students will use calculator functions to solve ratios. They can use 1:n or n:1 to solve ratios. Students can calculate quantities once they've found 1 part.	5 Dec - King Bhumibol Birthday
4-8 July	**Algebra-Direct and Inverse proportion.** Students will know when: Two quantities, A and B, are in direct proportion (or just in proportion) if increasing one increases the other one proportionally. So if quantity A is doubled (or trebled, halved, etc.), so is quantity B. They will also know when:	12 Dec - Constitution Day

	Two quantities, C and D, are in inverse proportion if increasing one quantity causes the other quantity to decrease proportionally. So if quantity C is doubled (or tripled, halved, etc.), quantity D is halved (or divided by 3, doubled etc.).	
11-15 July	**Number- Percentages** Students will be able to convert from percentages to fractions and decimals. They will be able to find the new amount after a percentage increase/decrease. Students will be able to find the original amount.	23 Dec – Class Christmas Parties
18-22 July	**Number- Percentages** Students will be able to convert from percentages to fractions and decimals. They will be able to find the new amount after a percentage increase/decrease. Express "x" as a percentage of "y". Students will find the percentage change. They will also find the original value. Students will calculate simple interest and compound interest.	26 – 30 Dec. Christmas Holiday
25-29 July	**Shape and space-Unit conversion.** Students will convert between metric and imperial units. They will be able to convert area and volume. They will learn formulae for speed, density and pressure.	2 Jan – New Year Observed
1-5 Aug.	**Shape and space-Geometry** Students will learn all angle facts. They will also learn about angles around parallel lines. Students will understand alternate, allied and corresponding angles. They will understand about regular and irregular polygons. Calculate interior and exterior angles. Students will understand the properties of triangles and quadrilaterals. Learn about congruent shapes.	16 Jan – Teacher's Day
8-12 Aug.	**Shape and space-The four transformations.** Students will understand translation, rotation, reflection and enlargement. They can use vectors when moving shapes. Students can describe rotations, by using angle rotation, direction of rotation and centre of rotation. They will reflect shapes through an equation and mirror line. Students will enlarge shapes using scale factor and centre of enlargement.	
15-19 Aug.	**Shape and space-Areas of triangles, Quadrilaterals and Circles.** Students will learn and use the formulae to solve problems. They will calculate circumference and areas of circles. Students will also find areas of Segments and sectors.	
22-26 Aug.	**Shape and space-3D Shapes- Surface area and Volume.** Students will recognize vertices, faces and edges of 3D shapes. They will recognize and use formulae for Spheres, cones and cylinders. Students will calculate volumes of prisms.	
29 Aug. – 2 Sept. **5-9 Sept.**	**Shape and space-Triangle construction and loci.** Students will construct sides and angles using a ruler and protractor. They will use loci and the locus of points which are a fixed distance from a given point, a fixed distance from a given line, equidistance from two given lines and equidistance from two given points.	
12-16 Sept. **19-23 Sept**	**Finals**	20 – 23 Feb. Final Exams