



# Bangkok Christian College English Immersion Program

## Course Scope for Science & Technology Mathayom 1

Semester 1/2024-2025 Teacher Ian Spellman



Date	Contents	Comments/ Remarks
13 - 17 May	Introductions, Classroom Expectations, Syllabus, other Logistical Stuff  Scientific Philosophy – How to think like a scientist. Critical analysis and informed investigation vs. blind acceptance of established “facts.”	
20 - 24 May	Fields of Science & Levels of Reality (Particles to Cosmos)	Scale of Universe Poster Assignment
27-31 May	Introduction to Energy & Forces (Quantitative vs. Qualitative Properties, Kinetic vs. Potential Energy, specific forms of energy, fields)	
3-7 June	Force Demonstrations, lab work?	
10 – 14 June	Matter (Subatomic Particles, Atoms, very low resolution concept of quanta, four fundamental forces, elements, periodic table)	
17 – 21 June	Energy II: Electricity, Magnets, Light, Sound	
24 – 28 June	Energy II Demonstrations and Labs	
1-5 July	Chemistry (Bonding, chemical reactions, molecules, acid-bases, hydrocarbons, low resolution biochemistry)	
8-12 July	Chemistry Demonstrations and Labs	
15-19 July	Review & Midterm Test	
22 – 26 July	Biological Macromolecules (Carbohydrates, Proteins, Lipids, Nucleic Acids, basic metabolism, nutrition, basic genetics)	
29 July- 2 August	Cells (organelles, different types, prokaryote vs. eukaryote)	Assign Final Project (Animal Ecology)
5 - 9 August	Biological Taxonomy (species concept, methods of classification and grouping, overview of major kingdoms)	Grouping Exercise
12 – 16 August	Ecology (bioenergy flow, foodwebs, biotic vs abiotic concept, Gaia hypothesis, ecosystem management)	
19 - 23 August	Outdoor Ecology Lab (Data Collection, in class Lab Report)	
26 - 30 August	Time Padding week (Almost certainly going to need it due to disruptions, doubt I’ll even be able to cover everything listed above anyway, some of it is likely to be kicked into semester II)	
2-6 September	Review & Final Project Presentations	
9 -13 September	Review & Final Project Presentations	
16 -20 September	Final Exam Week	



# Bangkok Christian College English Immersion Program



## Course Scope for PE Mathayom 1

Semester 1/2024-2025 Teacher Colleen Steinbring

Date	Contents	Comments/ Remarks
13-17 May	<ul style="list-style-type: none"> <li>• Ice-Breaker/Introduction</li> <li>• What you want out of PE?</li> </ul>	
20-24 May	<ul style="list-style-type: none"> <li>• Pre-Fitness Test 1               <ul style="list-style-type: none"> <li>○ Shuttle run</li> <li>○ Jump</li> </ul> </li> <li>• Fitness Game</li> </ul>	22 May – Visakha Bucha
27 May – 31 May	<ul style="list-style-type: none"> <li>• Sport of Survey Choice 1/4               <ul style="list-style-type: none"> <li>○ History of sport</li> <li>○ Famous players</li> <li>○ Academic work (player, team, etc.)</li> <li>○ Drills for sport</li> </ul> </li> </ul>	
3-7 June	<ul style="list-style-type: none"> <li>• Health               <ul style="list-style-type: none"> <li>○ Balanced Diet &amp; Exercise</li> </ul> </li> <li>• Play Sport of Survey Choice 1/4</li> </ul>	3 June – Queen’s Birthday
10-14 June	<ul style="list-style-type: none"> <li>• Pre-Fitness Test 2               <ul style="list-style-type: none"> <li>○ Squat</li> <li>○ Pushup</li> <li>○ Situp</li> </ul> </li> </ul>	
17-21 June	<ul style="list-style-type: none"> <li>• Health               <ul style="list-style-type: none"> <li>○ Body Type</li> <li>○ DOMS</li> </ul> </li> </ul>	
24 June – 28 June	<ul style="list-style-type: none"> <li>• Sport of Survey Choice 2/4               <ul style="list-style-type: none"> <li>○ History of sport</li> <li>○ Famous players</li> <li>○ Academic work (player, team, etc.)</li> <li>○ Drills for sport</li> </ul> </li> </ul>	
1-5 July	<ul style="list-style-type: none"> <li>• Post-Fitness Test 1               <ul style="list-style-type: none"> <li>○ Shuttle run</li> <li>○ Jump</li> </ul> </li> <li>• Fitness Game</li> </ul>	
8-12 July	<ul style="list-style-type: none"> <li>• Health               <ul style="list-style-type: none"> <li>○ Essay Choice</li> </ul> </li> </ul>	
15-19 July	<ul style="list-style-type: none"> <li>• Play Sport of Survey Choice 2/4</li> </ul>	
22-26 July	<ul style="list-style-type: none"> <li>• Post-Fitness Test 2               <ul style="list-style-type: none"> <li>○ Squat</li> <li>○ Pushup</li> <li>○ Situp</li> </ul> </li> </ul>	22 July - Buddhist Lent  Jul 29 - King’s Birthday

<b>29 July – 2 Aug</b>	<ul style="list-style-type: none"> <li>• Sport of Survey Choice 3/4 <ul style="list-style-type: none"> <li>○ History of sport</li> <li>○ Famous players</li> <li>○ Academic work (player, team, etc.)</li> <li>○ Drills for sport</li> </ul> </li> </ul>	
<b>5-9 Aug.</b>	<ul style="list-style-type: none"> <li>• Health <ul style="list-style-type: none"> <li>○ Addiction</li> </ul> </li> <li>• Play Sport of Survey Choice 3/4</li> </ul>	
<b>12-16 Aug.</b>	<ul style="list-style-type: none"> <li>• Fitness Game <ul style="list-style-type: none"> <li>○ Outdoor Tic-Tac-Toe</li> <li>○ Capture the Flag</li> </ul> </li> <li>• Play Sport of Survey Choice 3/4</li> </ul>	12 Aug – Mother’s Day
<b>19 Aug. – 23 Aug.</b>	<ul style="list-style-type: none"> <li>• Sport of Survey Choice 4/4 <ul style="list-style-type: none"> <li>○ History of sport</li> <li>○ Famous players</li> <li>○ Academic work (player, team, etc.)</li> <li>○ Drills for sport</li> </ul> </li> </ul>	
<b>26 Aug – 30 Aug.</b>	<ul style="list-style-type: none"> <li>• Play Sport of Survey Choice 4/4</li> </ul>	
<b>2-6 Sept.</b>	<ul style="list-style-type: none"> <li>• Review for Final Exam</li> <li>• Play new sport</li> </ul>	
<b>9-13 Sept</b>	In class Final Exam	
<b>16-20 Sept</b>	Final Exam Week	



**Bangkok Christian College English Immersion Program**  
**Course Scope for Mathematics Mathayom 1**  
**Semester 1/2024-2025 Teacher Gregory Hewes**



Date	Contents	Comments/ Remarks
13 - 17 May	Introduction to class Glencoe 0-1: Four Step Problems Solving Plans	
20- 24 May	Glencoe 0-2 to 0-5: Real Numbers, Classifying Real Numbers, Graphing and Ordering, Operations with Integers. Comparing, Ordering, Adding and Subtracting Real Numbers Multiplying and Dividing Rational Numbers	
27 - 31 May	Glencoe 0-6 to 0-10: Percent Proportion Perimeter of Rectangle, Square, Parallelogram and Triangle, Circumference, Area of Rectangle, Square, Parallelogram and Triangle, Circle, Volume of Prism, Cylinder, Surface Area of Prism, Cylinder <b>Basic Unit 1 Review / Test</b>	
3 - 7 Jun.	Glencoe 0-11 to 1-3: Simple Probability and Odds Algebraic Vocabulary, Writing verbal expressions, Order of Operations, Evaluating expressions, Properties of Equality and Identity <b>Additional Unit 1 Review / Test</b>	3 Jun. – Queen’s Birthday
10 – 14 Jun.	Glencoe 1-4 to 1-6: Distributive Property, Descriptive Modeling, use of Metrics, Ordered pairs, Relationships, Domain and Range Glencoe 1-7: Identifying functions, discrete v. continuous, vertical line test.	
17 – 21 Jun.	Glencoe 1-7 to 1-8: Identifying functions, discrete v. continuous, vertical line test, Interpreting Graphs of Functions, Intercepts, Properties of functions <b>Basic Unit 2 Review / Test</b>	
24 - 28 Jun.	Glencoe 2-1 to 2-3: Writing equations, sentences to equations, equations to sentences, Solving one and multistep equations, consecutive integer problems	
1 –5 Jul.	Glencoe 2-4 to 2-6: Solving equations with variables on each side, grouping symbols, special solutions, Absolute value, Determine if ratios are equivalent, cross products, solving, rate of growth	
8 - 12 Jul.	Glencoe 2-7: Solve for Variable, Literal Equations <b>Add Unit 2 Review / Test</b>	
15 - 19 Jul.	Glencoe 3-1: Standard Form of Linear equation, Intercept method of graphing, point plotting method of graphing	
22 - 26 Jul.	Glencoe 3-2 to 3-4: Zeros of Linear functions: finding graphically, algebraically, estimate by graphing, Rate of change, Finding Slope, Types of slope, Slope-Intercept form,	22 Jul. – Asalha Puja Day
29 Jul. - 2 Aug.	<b>Basic Unit 3 Review / Test</b> Glencoe 3-6 to 3-7: Arithmetic Sequences as linear functions, nth term of sequence, as functions, Piecewise and Step Functions,	29 Jul – King’s Birthday
5 - 9 Aug.	Glencoe 3-8: Absolute Value Functions, graphing $f(x)+h$ , $f(x)-h$ , <b>Add Unit 3 Review / Test</b>	
12 - 16 Aug.	Glencoe 4-1 to 4-3: Find Linear equation with point and slope, 2 points, Write and graph equation in std form, point/slope form,	12 Aug. – Queen’s Birthday
19 – 23 Aug.	Glencoe 4-4 to 4-7: Scatter Plots and Correlation, drawing a line of fit, linear interpolation, Correlation and Causation, Inverse of linear functions, <b>Basic Unit 4 Review / Test</b>	
26 - 30 Aug.	Glencoe 5-1 to 5-3: Solve inequalities by addition / subtraction, Solve inequalities by multiplication / division, Solve Multistep inequalities	
2 - 6 Sep.	Glencoe 5-4 to 5-6: Solve Compound Inequalities, inequalities using and, unions (using or), Inequalities with Absolute Value, solving and applying, Graphing Inequalities in 2 variables,	
9 – 13 Sep.	<b>Add Unit 4 Review / Test</b> Final Exam Preparation	
16 – 20 Sep.	Final Exam Week	



# Bangkok Christian College English Immersion Program

## Course Scope for Computing Science Mattayom 1

Semester 1/2024-2025 Teacher Dean Landucci



Date	Contents	Comments/ Remarks
13 - 17 May	A welcome introduction to the computer room. Classroom rules. Set up passwords, login, accessing Microsoft 365. Enroll in the Teams channel.	
20 - 24 May	Syllabus Cambridge IGCSE document creation. Microsoft 365 cloud computing – Word online document creation. Task 1-3. Create, label, and source online documents. Create and modify tables.	
27-31 May	Word online document creation. Tasks 4-5, formatting text, working with images, researching and formatting text from a web page.	
3-7 June	Word online document creation. Task 6-8, Editor and spell checking. Using an editor to check document content. Using bullets, lists, headers, and inserting page numbers.	
10 – 14 June	Word online document creation. Task 9-10, work review, student works check. Creation of shared link, attaching online document shared links to a Microsoft Teams assignment.	
17 – 21 June	Microsoft 365 Suite. Excel online task 1, opening and saving a document. Excel code game orientation in work environment and tools.	
24 – 28 June	Microsoft 365 Suite. Excel online tasks 2-3, creating, and labeling new worksheets. Formatting tools, text, and using borders.	
1-5 July	Microsoft 365 Suite. Excel online tasks 4-5, using formulas max, sum, min, and average. Changing numbers to currency, time, or measurements.	
8-12 July	Midterm quiz – Microsoft Online Office, Word, and Excel document creation. Competence in user interface labeling and saving work.	
15-19 July	Microsoft 365 Suite. Excel online task 6, creation of statistics and charts. Creation of data charts, different charts, and functions. Reading data from charts.	
22 – 26 July	Microsoft 365 Suite. Excel online task 7, work review, Creation of shared link, attaching online document shared links to a Microsoft Teams assignment.	
29 July- 2 August	Graphic creation Adobe Photoshop. Creation of a custom Power Point slide. Understanding on, a new canvas, using measurements of pixels. Auto shapers, fill effects, exporting in .jpg format.	
5 - 9 August	Work development, Exporting Photoshop projects in .jpg using the correct canvas size and DPI.	
12 – 16 August	Microsoft 365 Suite. PowerPoint tasks 1-2, creation, and labeling a new PowerPoint project.	
19 - 23 August	Microsoft 365 Suite. PowerPoint tasks 3-4, concepts of inserting deleting slides, and choosing design templates. smart art, working with images.	
26 - 30 August	Microsoft 365 Suite. PowerPoint tasks 5-6, background, animation. Using custom graphics from Photoshop to create a custom background. Design elements, working with text and images.	
2-6 September	Microsoft 365 Suite. PowerPoint tasks 7-8, research topic. Sourcing information from the web site. Formatting text, using animations and presentation effects to create a slide show.	
9 -13 September	Final Semester Quiz – Microsoft Office, operational knowledge of documents, workbooks and presentation creation. Storing, retrieving, and archiving works from OneDrive.	
16 -20 September	<b>Final Exam Week</b>	



**Bangkok Christian College English Immersion Program**  
**Course Scope for English Mathayom 1**  
**Semester 1/2024–2025 Teacher Christopher Lamitle**



Date	Contents	Comments/ Remarks
15 – 19 May	<ul style="list-style-type: none"> <li>• Teacher/student introductions</li> <li>• Go over class rules</li> <li>• Go over Course Outline/set goals</li> <li>• Assessment of students' English levels</li> </ul>	
22 - 26 May	<p><b>Unit 1-1 Survival</b></p> <ul style="list-style-type: none"> <li>• Inferring Ideas</li> <li>• Picking out key points</li> <li>• Summarizing text</li> <li>• Intention and response</li> <li>• Sentence structure for effect</li> </ul> <p><b>Assessment:</b> answering questions on short extract/writing short narrative text</p>	
29 May – 2 Jun.	<p><b>Unit 1-2 Survival</b></p> <ul style="list-style-type: none"> <li>• Making arguments</li> <li>• Informational texts</li> <li>• Comparing texts</li> </ul> <p><b>Assessment:</b> students write an informational text about starting a new school</p>	
5 – 9 Jun.	<p><b>Unit 1-3 Survival</b></p> <ul style="list-style-type: none"> <li>• Letters</li> <li>• Reviewing and Revising</li> <li>• Adverbials of Time</li> </ul> <p><b>Assessment:</b> Answer questions on a short extract and write a short narrative text</p>	5 Jun- Vishaka Bucha
12 – 16 Jun.	<p><b>Unit 1-4 Survival</b></p> <ul style="list-style-type: none"> <li>• Sentence structure for effect</li> <li>• Writer's intention</li> <li>• Conjunctions</li> <li>• Dependent/independent clauses</li> </ul>	
19 – 23 Jun.	<p><b>Unit 1-5 Survival</b></p> <ul style="list-style-type: none"> <li>• Mid-unit assessment</li> <li>• Editorials/argument writing</li> <li>• Identifying/linking key points</li> </ul>	
26 – 30 Jun.	<p><b>Unit 1-6 Survival</b></p> <ul style="list-style-type: none"> <li>• Using emotive language</li> <li>• Rhetorical devices</li> <li>• Subject-verb agreement</li> </ul> <p><b>Assessment:</b> Students write an argument text</p>	
3 – 7 Jul.	<p><b>Unit 1-7 Survival</b></p> <ul style="list-style-type: none"> <li>• Newspaper Reports</li> <li>• Chronological structure</li> <li>• Exploring vocabulary choices</li> <li>• Writing in the past/present tenses</li> </ul> <p><b>Assessment:</b> Students write a news article about a dramatic rescue</p>	
10 – 14 Jul.	<p><b>Unit 1-8 Survival</b></p> <ul style="list-style-type: none"> <li>• Comparing/contrasting texts</li> <li>• Selecting evidence</li> <li>• Adverbials of comparison</li> </ul> <p><b>Assessment:</b> students write a comparison of key points from two extracts</p>	

<p>17 -21 Jul.</p>	<p><b>Unit 1-9 Survival</b></p> <ul style="list-style-type: none"> <li>• Punctuation</li> <li>• Common verb suffixes</li> <li>• Proofreading</li> <li>• Vocabulary choice</li> <li>• Avoiding repetition in writing</li> </ul> <p>Assessment: test on Unit 1</p>	
<p>24 – 28 Jul..</p>	<p><b>Unit 2-1 Danger</b></p> <ul style="list-style-type: none"> <li>• Leaflets</li> <li>• Skimming</li> <li>• Combining key points of information</li> </ul> <p>Assessment: Students research tsunamis using skimming/scanning skills and note interesting facts that they discover</p>	<p>28 Jul – King’s Birthday</p>
<p>31 Jul. – 4 Aug.</p> <p>7 – 11 Aug.</p>	<p><b>Unit 2-2 Danger</b></p> <ul style="list-style-type: none"> <li>• Tense descriptions</li> <li>• Understanding unfamiliar words/words in context</li> <li>• Identifying/combining key points</li> </ul> <p>Assessment: students write two paragraphs describing their feelings about a competition they have taken part in.</p>	<p>1 Aug – Buddhist Lent</p>
<p>14 – 18 Aug.</p>	<p><b>Unit 2-3 Danger</b></p> <ul style="list-style-type: none"> <li>• Summarizing key information</li> <li>• Identifying key points</li> <li>• Linking clauses with conjunctions</li> </ul> <p>Assessment: Students write a summary of a story from bullet points of the main events of that story</p>	<p>14 Aug – Queen’s Birthday</p>
<p>21 – 25 Aug.</p>	<p><b>Unit 2-4 Danger</b></p> <ul style="list-style-type: none"> <li>• Comparing key points</li> <li>• Identifying important points</li> <li>• Pronouns</li> </ul> <p>Assessment: students write a comparison of two extracts</p> <p><b>Unit 2-5 Danger</b></p> <ul style="list-style-type: none"> <li>• Retrieving information</li> <li>• Using the skill of inference</li> <li>• Using quotations</li> </ul> <p>Assessment: students write two paragraphs explaining their thoughts and feelings the night before a test. (testing students’ ability to effectively imply his thoughts and feelings)</p>	
<p>26 Aug – 1 Sep.</p>	<p><b>Unit 2-6 Danger</b></p> <ul style="list-style-type: none"> <li>• Exploring first response to an extract</li> <li>• Identifying writer’s intention</li> <li>• Synonyms and Antonyms</li> </ul> <p>Assessment: students write a response to an extract</p>	
<p>4 – 8 Sep.</p>	<p><b>Unit 2-7 Danger</b></p> <ul style="list-style-type: none"> <li>• Supporting your response</li> <li>• Exploring setting</li> <li>• Exploring character</li> </ul> <p>Assessment: Students write an essay about their three favorite stories/films, explaining why they enjoyed them</p>	
<p>11 – 15 Sep.</p>	<p><b>FINAL EXAM REVIEW</b></p>	



# Bangkok Christian College English Immersion Program

## Course Scope for Free Elective Mattayom 1

Semester 1/2024-2025 Teacher Ian Spellman



Date	Contents	Comments/ Remarks
13 - 17 May	Introductions, Classroom Expectations, Semester Roadmap. Grades will be based on participation in in-class activities and behavior	
20 - 24 May	Further coverage of important info followed by beginning in-class activities	
27-31 May	In class activities + Microscopy Demonstration (plant cells)	
3-7 June	In class activities + Microscopy Demonstration (animal cells)	
10 – 14 June	In class activities + Microscopy Demonstration (sample collection)	
17 – 21 June	In class activities + Microscopy Demonstration (slide preparation)	
24 – 28 June	In class activities + Fungal Plating sample collection	
1-5 July	In class activities + Flow Hood demonstration and sample preparation	
8-12 July	In class activities + Fungal sample observation (dissection scope), colony isolation?	
15-19 July	In class activities + Four Fundamental Forces Lesson	
22 – 26 July	In class activities + Four Fundamental Forces Lesson (continued)	
29 July- 2 August	In class activities + Electromagnetism demonstration – Tesla’s plasma globe	
5 - 9 August	In class activities + Geomagnetism, earthing demonstration (out of classroom)	
12 – 16 August	In class activities + Piezoelectricity Lesson (demonstration if materials can be acquired)	
19 - 23 August	In class activities + Sound Resonance demonstration, “can sound heal?” – tuning forks	
26 - 30 August	In class activities + Some chemistry demonstration (TBD)	
2-6 September	In class activities + Some chemistry demonstration (TBD)	
9 -13 September	In class activities + Dissections	
16 -20 September	Final Exam Week	