



Year 12 Content Summaries

Semester 2 Academic Year 2024

WEEKS 1 - 10

Teacher

Mr. Kevin Baker

Subject

F. English

Subject Code

EN 30106

UNIT	At the end of unit the students will be able to	Text / Resource
1st	Useful phrases Listening skills Question forms	Google Classroom Worksheets Smart Screen
2nd	Tense review Conveying emotion in speech Tense review	Google Classroom Worksheets Smart Screen
3rd	Exploring synonyms Intonation to show feelings Gradable and non-gradable adjectives	Google Classroom Worksheets Smart Screen
4th	Giving advice Word stress Phrasal verbs	Google Classroom Worksheets Smart Screen

UNIT	At the end of unit the students will be able to	Text / Resource
5th	Pronouns refresher Connected speech in slang Language for diplomacy and negotiation	Google Classroom Worksheets Smart Screen
6th	Childhood memories Trivia quiz Prepositions of time	Google Classroom Worksheets Smart Screen

Teacher

Mr. Kevin Baker

Subject

English for Academic
Purpose

Subject Code

EN 30223

UNIT	At the end of unit the students will be able to	Text / Resource
1st	Nouns and articles Writing tailored to a specific audience Verb patterns and passive structures	Google Classroom Worksheets Smart Screen
2nd	Modal verbs Obligation and permission Breaking down previous essays	Google Classroom Worksheets Smart Screen
3rd	Modals of deduction Collocations Defining relative clauses	Google Classroom Worksheets Smart Screen

UNIT	At the end of unit the students will be able to	Text / Resource
4th	Conditionals Using word groups to to evoke a specific feeling Situations and dilemmas	Google Classroom Worksheets Smart Screen
5th	Adverbs of manner Adverbs of frequency Adjective order	Google Classroom Worksheets Smart Screen
6th	Descriptions of people Describing scenes of nature Clothing and physical descriptions	Google Classroom Worksheets Smart Screen
7th	Exploring meanings Abbreviations Acronyms and adverbs of manner	Google Classroom Worksheets Smart Screen

Teacher

Mr. Christopher C. Morgan

Subject

English Listening &
Speaking

Subject Code

EN 30222

Week 1

Introduction
project Start up
small business

· What is a start up?

PowerPoint Presentation

Vocab:

- **Entrepreneur:** A person who starts and manages a business.
- **Startup:** A newly established business.
- **Revenue:** The income generated from normal business operations.
- **Market Research:** The process of gathering information about consumers' needs and preferences.
- **Target Audience:** A specific group of consumers at whom a product or service is aimed.

<p>Week 2</p>	<p>Business Planning Basics</p>	<p>PowerPoint Presentation students on iPads</p> <p>Vocab:</p> <ul style="list-style-type: none"> ○ Executive Summary: A brief overview of the business plan. ○ Market Analysis: Assessment of market conditions and competition. ○ Marketing Strategy: Plan for promoting and selling the product or service. ○ Financial Projections: Estimates of future financial performance. ○ Feasibility: The practicality or possibility of a business idea.
<p>Week 3</p>	<p>Marketing and Branding</p> <ul style="list-style-type: none"> ▪ Marketing development plan 	<p>PowerPoint Presentation students on iPads</p> <p>Vocab:</p> <ul style="list-style-type: none"> ○ Branding: The process of creating a unique name and image for a product. ○ Advertising: Promoting a product or service through various media. ○ Market Segmentation: Dividing a market into distinct groups of buyers. ○ Positioning: How a product is perceived in the minds of consumers. ○ USP (Unique Selling Proposition): The unique benefit or feature that sets a product apart.

<p>Week 4</p>	<p>Financial Planning</p> <ul style="list-style-type: none"> ▪ Financial plan development 	<p>PowerPoint Presentation students on iPads</p> <p>Vocab:</p> <ul style="list-style-type: none"> ○ Budgeting: Planning and managing finances. ○ Pricing Strategies: Methods for setting product prices. ○ Break-Even Analysis: Determining when a business will become profitable. ○ Cash Flow: The movement of money into and out of a business. ○ Capital: Funds available for use in business operations.
<p>Week 5</p>	<p>Legal and ethical considerations</p> <ul style="list-style-type: none"> · Compliance and Ethics in business 	<p>PowerPoint Presentation students on iPads</p> <p>Vocab:</p> <ul style="list-style-type: none"> ○ Regulations: Rules set by authorities to govern business operations. ○ Intellectual Property: Creations of the mind, like inventions and trademarks. ○ Compliance: Adhering to laws and regulations. ○ Ethics: Moral principles guiding business conduct. ○ Liability: Legal responsibility for business activities.

Week 6

Presentation Skills

- Students practice elevator pitch (dragon's den)

PowerPoint Presentation students on iPads

Vocab:

- **Organization:** Structuring information logically.
- **Clarity:** Ensuring information is easily understood.
- **Visual Aids:** Tools like charts and graphs to enhance presentations.
- **Delivery:** The manner in which information is presented.
- **Engagement:** Capturing and maintaining audience interest.

Week 7

Writing a business plan

- Students use template to write a plan for their business idea

PowerPoint Presentation students on iPads

Vocab:

- **Feedback:** Information about performance used for improvement.
- **Rehearsal:** Practicing a presentation before the actual event.
- **Confidence:** Self-assurance in one's abilities.
- **Articulation:** Clear and effective speech.
- **Pacing:** Speed at which information is delivered.

<p>Week 8</p>	<p>Present business plan</p>	<p>PowerPoint Presentation students on iPads</p> <p>Vocab:</p> <ul style="list-style-type: none"> ○ Implementation: The process of putting a plan into action. ○ Milestones: Key points or events in a project timeline. ○ Scalability: Ability to grow and expand. ○ Execution: Carrying out a plan or strategy. ○ Metrics: Standards of measurement for evaluating success.
<p>Week 9</p>	<p>Implementation Strategies</p> <ul style="list-style-type: none"> ▪ Students write how they are going to implement their business plan 	<p>Smart TV, iPads, camera to film</p> <p>Vocab:</p> <ul style="list-style-type: none"> ○ Reflection: Thinking about and analyzing experiences. ○ Evaluation: Assessing performance or success. ○ Challenges: Difficulties encountered. ○ Adaptation: Adjusting plans or strategies based on feedback. ○ Sustainability: The ability to maintain business operations over time.

Week
10

Presentation week

- Students present their plan and their products
- Students organise a market day to showcase their business ideas/products. Invite parents?

Smart TV, iPads, camera
to film

Vocab:

- **Showcase:** A presentation or display of work.
- **Achievement:** Accomplishment of goals.
- **Integration:** Combining various elements into a cohesive whole.
- **Presentation:** The act of showing and explaining work.
- **Critique:** Evaluating and providing feedback on work.

Teacher

Mr. John Thomas Taylor

Subject

**English
Reading &**

Subject Code

EN 30206

UNIT	At the end of unit the students will be able to	Text / Resource
1.	Summarize a video and its video comments and add a video description to the comments of their chosen video and report replies to the class.	PowerPoint The Internet: YouTube Instagram TikTok Google Drive Word Hippo
2.	Read and summarize/report on a product/Google maps review or similar and present it to the class.	PowerPoint The Internet: YouTube Instagram TikTok Google Drive Word Hippo
3.	Read and summarize/report on an article, short story, comic book, blog post or similar and present it to the class.	PowerPoint The Internet: YouTube Instagram TikTok Google Drive Word Hippo
4.	Describe a short, viral video using a 3rd-person objective narration in present tense and prepare 5 questions for your audience as you will be presenting it with no text on any slides/visuals.	PowerPoint The Internet: YouTube Instagram TikTok Google Drive Word Hippo

Teacher

Mr. Ugur Aydin

Subject

F. Mathematics

Subject Code

MA 30106

UNIT	At the end of unit the students will be able to	Text / Resource
UNIT-1	Normal Distribution -Introduction to Normal Distribution -Area under a Normal Curve -Applications of Area Under a Normal curve -Word Problems	*Probability Distribution Textbook *Worksheets

Teacher

Mr. Ugur Aydin

Subject

S. Mathematics

Subject Code

MA 30206

UNIT	At the end of unit the students will be able to	Text / Resource
UNIT-1	INTEGRAL CALCULUS -Integral -Fundamental Theorem of Calculus -Infinite Integral -Finite Integral	*CALCULUS Textbook by MIT *Worksheets

Teacher

Mr. Xavier Perez-Hall

Subject

Integrated Science

Subject Code

ST 30282

UNIT	At the end of unit the students will be able to	Text / Resource
<p>Unit 1: Thermodynamics and Chemical Reactions</p> <p>This unit focuses on the principles of thermodynamics as they apply to both Chemistry and Physics, alongside an in-depth exploration of chemical reactions and their kinetics.</p>	<p>Thermodynamics (Chemistry & Physics):</p> <ul style="list-style-type: none">• Study of energy changes in chemical and physical processes.• Enthalpy, entropy, and Gibbs free energy in chemical reactions.• Application of the laws of thermodynamics to heat, work, and internal energy in physical systems.• Practical applications in engines, refrigerators, and everyday technologies. <p>Chemical Kinetics:</p> <ul style="list-style-type: none">• Factors influencing reaction rates: temperature, concentration, and catalysts.• Reaction mechanisms and the role of activation energy. <p>Equilibrium:</p> <ul style="list-style-type: none">• Dynamic chemical equilibrium and Le Chatelier's Principle.• Real-world applications of equilibrium in industrial and biological systems. <p>Electrochemistry:</p> <ul style="list-style-type: none">• Oxidation-reduction reactions in electrochemical cells.• Use of standard reduction potentials to predict redox reactions.	

UNIT	At the end of unit the students will be able to	Text / Resource
<p>Unit 2: Waves, Electromagnetism, and Modern Science</p> <p>This unit combines advanced topics in electromagnetism, wave theory, light, and modern physics, along with a section on organic chemistry to bridge the gap between classical and contemporary scientific understanding.</p>	<p>Waves and Light:</p> <ul style="list-style-type: none"> • Properties of waves: frequency, wavelength, amplitude, and speed. • Phenomena such as interference, diffraction, and polarization. • Application of wave theory in optics, sound, and communication technologies. <p>Electromagnetism:</p> <ul style="list-style-type: none"> • Electric and magnetic fields, forces, and potentials. • Electromagnetic induction and its applications in generators and transformers. <p>Modern Physics:</p> <ul style="list-style-type: none"> • Introduction to quantum mechanics: wave-particle duality and atomic models. • The photoelectric effect and its role in modern technological advancements. • Relativity theory: the relationship between time, space, and motion. <p>Organic Chemistry:</p> <ul style="list-style-type: none"> • Basic structure, nomenclature, and reactions of organic molecules. • Functional groups, polymers, and biomolecules in everyday life. 	

Teacher**Ms. Mary Vatra****Subject****Biology****Subject Code****ST 30245**

UNIT	At the end of unit the students will be able to	Text / Resource
4	Will have a better understanding of the importance of having a balanced ecological system	Power points

Teacher**Mr. Sviatoslav Blokhin****Subject****Creative Computer****Subject Code****ST 30273**

UNIT	At the end of unit the students will be able to	Text / Resource
Moving Objects and Basic Materials	Move, rotate, and scale objects in 3D space. Apply and edit basic materials to 3D objects.	3D Modeling Software, 3D IDE, Presentations, Graphics.
Lighting and Environment	Set up basic lighting and adjust light properties. Add an environment to the scene and control its impact on lighting.	3D Modeling Software, 3D IDE, Presentations, Graphics.
UV Mapping and Materials	Apply UV mapping to objects to project textures correctly.	3D Modeling Software, 3D IDE, Presentations, Graphics.

Teacher**Ms. Shashi Saihgal****Subject****Chemistry****Subject Code****ST 30225**

UNIT	At the end of unit the students will be able to	Text / Resource
3.5 shapes of the molecules	state and explain the shapes of, and bond angles in, molecules by using VSEPR theory, including as simple examples: <ul style="list-style-type: none">● BF₃ (trigonal planar, 120°)● CO₂ (linear, 180°)● CH₄ (tetrahedral, 109.5°)	text book google classroom
	<ul style="list-style-type: none">● NH₃ (pyramidal, 107°)● H₂O (non-linear, 104.5°)● SF₆ (octahedral, 90°)● PF₅ (trigonal bipyramidal, 120° and 90°)● predict the shapes of, and bond angles in, molecules and ions analogous to those specified in 3.5.1	text book google classroom
	(a) describe hydrogen bonding, limited to molecules containing N–H and O–H groups, including ammonia and water as simple examples (b) use the concept of hydrogen bonding to explain the anomalous properties of H ₂ O (ice and water): <ul style="list-style-type: none">● its relatively high melting and boiling points● its relatively high surface tension● the density of the solid ice compared	text book google classroom

UNIT	At the end of unit the students will be able to	Text / Resource
	<p>use the concept of electronegativity to explain bond polarity and dipole moments of molecules</p> <p>3 (a) describe van der Waals' forces as the intermolecular forces between molecular entities other than those due to bond formation, and use the term van der Waals' forces as a generic term to describe all intermolecular forces</p>	<p>text book google classroom</p>
	<p>describe the types of van der Waals' force:</p> <ul style="list-style-type: none"> ● instantaneous dipole – induced dipole (id-id) force, also called London dispersion forces ● permanent dipole – permanent dipole (pd-pd) force, including hydrogen bonding <p>(c) describe hydrogen bonding and understand that hydrogen bonding is a special case of permanent dipole – permanent dipole force between molecules where hydrogen is bonded to a highly electronegative atom</p> <p>4 state that, in general, ionic, covalent and metallic bonding are stronger than intermolecular forces</p>	<p>text book google classroom</p>

Teacher

New Science Teacher

Subject

Physics

Subject Code

ST 30205

UNIT

At the end of unit the students will be able to

The following Vocabulary
Will help your child
Understand the unit :

Please Contact Teacher



Year 12 Content Summaries

Semester 2 Academic Year 2024

WEEKS 1 - 10

Teacher

Ms. Supaluk Aorsunton

Subject

F. Thai

Subject Code

TH 30106

UNIT	At the end of unit the students will be able to	Text / Resource
วิวิธภาษา หน่วยที่ 1 ระดับภาษา หน่วยที่ 2 คำราชาศัพท์ หน่วยที่ 3 เหตุผลกับภาษา	- นักเรียนสามารถใช้ภาษาระดับต่าง ๆ ได้เหมาะสมกับฐานะของบุคคล และโอกาสต่าง ๆ รวมถึงใช้ภาษาได้อย่างมีเหตุผล	

UNIT	At the end of unit the students will be able to	Text / Resource
วรรณคดีวิจักษ์ หน่วยที่ 4 ไตรภูมิพระร่วง หน่วยที่ 5 ขัตติยพันธกรณี	<ul style="list-style-type: none"> - นักเรียนสามารถวิเคราะห์วิจารณ์เรื่องที่อ่านได้อย่างมีเหตุผล รวมถึงประเมินค่าเพื่อนำความรู้ความคิดไปตัดสินใจแก้ปัญหาในการดำเนินชีวิต 	

Teacher

Mr. Kamjohn Suktawe

Subject

F. Social Studies

Subject Code

SO 30106

UNIT	At the end of unit the students will be able to	Text / Resource
หน่วยที่ 8 พุทธสาวกและ พุทธสาวิกา	<ul style="list-style-type: none"> - พุทธสาวก - พุทธสาวิกา 	หนังสือเรียนวิชา พระพุทธศาสนา ม.4-6
หน่วยที่ 9 ชาวพุทธตัวอย่าง	<ul style="list-style-type: none"> - พระนาคเสน-พระยามิลินท์ - อนาคตริก ธรรมपालะ - อาจารย์สุชีพ ปุญญานุกภาพ 	หนังสือเรียนวิชา พระพุทธศาสนา ม.4-6
หน่วยที่ 10 หน้าที่ชาวพุทธ	<ul style="list-style-type: none"> - การปฏิบัติตนเป็นชาวพุทธที่ดีต่อพระสงฆ์ - การปกป้องคุ้มครองพระพุทธศาสนา - หน้าที่และบทบาทของอุบาสก อุบาสิกา 	หนังสือเรียนวิชา พระพุทธศาสนา ม.4-6

Teacher**Mr. Kamjohn Suktawee****Subject****Citizenship Edu.****Subject Code****SO 30210**

UNIT	At the end of unit the students will be able to	Text / Resource
หน่วยที่ 3 ความเป็นพลเมืองดี ในระบอบประชาธิปไตย อันมีพระมหากษัตริย์ ทรงเป็นประมุข	<ul style="list-style-type: none"> - พลเมืองดีตามวิถีประชาธิปไตย - กระบวนการประชาธิปไตย - การรู้เท่าทันสื่อ ข่าวสาร 	-หนังสือหน้าที่พลเมือง 3-4
หน่วยที่ 4 ความปรองดอง สมานฉันท์	<ul style="list-style-type: none"> - การอยู่ร่วมกันในสังคมพหุวัฒนธรรม - การสร้างความปรองดองสมานฉันท์ 	หนังสือหน้าที่พลเมือง 3-4

Teacher**Ms. Pornthipa Netthip****Subject****Occupational Works****Subject Code****OC 30108**

UNIT	At the end of unit the students will be able to	The following Vocabulary Will help your child Understand the unit :
การเพิ่มมูลค่าผลิตภัณฑ์	<ul style="list-style-type: none"> - นักเรียนเรียนรู้หลักการแปรรูปอาหารจากผลิตภัณฑ์ต่าง ๆ 	

Teacher**Ms. Natnaree Pattaramandkongskul****Subject****Politics, Economics
& Society****Subject Code****SO 30216**

UNIT	At the end of unit the students will be able to	Text / Resource
บทที่ 1 ความหมายและ ความสัมพันธ์ของ การเมือง การปกครอง เศรษฐกิจและสังคม	ศึกษาความหมายและความสำคัญรวมถึงประโยชน์ ของการเมืองการปกครอง เศรษฐกิจและสังคม	หนังสือการเมือง เศรษฐกิจ และสังคม

Teacher**Ms. Saralee Singharat****Subject****Thai Dance****Subject Code****AR 30105**

UNIT	At the end of unit the students will be able to	The following Vocabulary Will help your child Understand the unit :
วิจารณ์การแสดง ตามหลักนาฏศิลป์และ การละคร	<ul style="list-style-type: none"> - นักเรียนสามารถวิจารณ์และประเมินคุณภาพ การแสดงละครที่ไม่ใช่ทำร่ำได้ - นักเรียนสามารถอธิบายเทคนิคการแสดงได้ 	
สร้างสรรค์ละครสั้น	<ul style="list-style-type: none"> - นักเรียนสามารถสร้างสรรค์ละครสั้น ในแบบที่ตนเองชอบได้ - นักเรียนสามารถอธิบายหลักการสร้างสรรค์ละครสั้นได้ 	

Teacher

Mr. Ruttapon Tuntinjakul

Subject

Health Studies

Subject Code

HP 30106

UNIT	At the end of unit the students will be able to	The following Vocabulary Will help your child Understand the unit :
ปฐมนิเทศ	<ul style="list-style-type: none">- ระเบียบข้อตกลงในการเรียน- จุดมุ่งหมายในการเรียนรู้พลศึกษา- การวัดและการประเมินผล	
กีฬาแบดมินตัน	<ul style="list-style-type: none">- นักเรียนได้เรียนรู้ประวัติประโยชน์และความปลอดภัยในการเล่นกีฬาแบดมินตัน- นักเรียนได้เรียนรู้หลักการสร้างเสริมร่างกายในการเล่นแบดมินตัน- นักเรียนสามารถปฏิบัติทักษะการเคลื่อนที่ขั้นพื้นฐานในกีฬาแบดมินตันได้- นักเรียนสามารถปฏิบัติทักษะการเสิร์ฟ การตีลูกโด่งเหนือศีรษะ การตีลูกคาด และการตีลูกหยอดได้	กีฬาแบดมินตัน

Teacher

Ms. Ruchira Chimyam

Subject

Guidance

Subject Code

-

UNIT	At the end of unit the students will be able to	The following Vocabulary Will help your child Understand the unit :
1	มุมมอง	Powerpoint
2	จัดใจก่อนจัดการ	Powerpoint
3	เป้าหมายสู่อาคต	Powerpoint
4	อาชีพที่ฉันสนใจ	Powerpoint
5	ค้นหาสิ่งที่ทำได้ดี	Powerpoint
6	เรียนรู้อย่างเข้าใจ	Powerpoint
7	อาจออกของชีวิต	Powerpoint
8	สำรวจความสนใจทางอาชีพ	Powerpoint
9	ชีวิตกับวัยทำงาน	Powerpoint
10	การวางแผนเข้าสู่อาชีพ	Powerpoint

Teacher

Ms. Pinkaew Subsanong

Subject

Prof. Speaking

Subject Code

SO 30207

UNIT

At the end of unit the students will be able to

The following Vocabulary
Will help your child
Understand the unit :

Please Contact Teacher