

Formulating Solutions and Workarounds

Asst. Prof. Alexis Goh, YUNTECH Jan 11, 2022 @ NCU

SHARING Insights **01**

- What do CEFR, EMI, and CLIL have to do with us?
- How did Japan, HK and China implement their EMI?
- CLIL and EMI in Taiwan (Engineering & IT)

AGENDA (PM)



- Teaching Science through
 English a CLIL Approach.
- Educational technology and the way forward.





2030打造台灣成為雙語國家!

Developing Taiwan into a Bilingual Nation by 2030

啟動教育體系雙語活化

Bolster Taiwan's bilingual education system

從需求端強化國人英語力

Improve the public's
English proficiency through
demand-driven learning



提升國家整體競爭力

Enhance the nation's overall competitivenes.



高教雙語政策 - 推動大專校院學生雙語化學習計畫

發布單位:高等教育司 聯絡人:陳浩

- (一) 2024年達到「25-20-20」: 2024年時,標竿大學與標竿學院至少有25%的大二學生,其英文能力在聽說 讀寫達到CEFR B2以上的流利精熟等級,同時全校至少有20%的大二學生與碩一學生,在其當年所修學分中的 20%以上為全英語課程。
- (二) 2030年達成「50-50-50」: 2030年時,標竿大學與標竿學院中至少有50%的大二學生在聽說讀寫達到 CEFR B2以上的流利精熟程度,同時至少有50%的大二學生與碩士學生其當年學分中的50%以上為全英語課程,並推動畢業證書EMI修課認證,以接軌國際及產業。
- (一) 英語課採全英語教學: 2024年至少20所大專校院英語課採全英授課比率達30%以上、2030年至少40所大專校院英語課採全英授課比率達80%以上;並逐步推動專業導向(ESP、EAP、EWP)之英語教學內涵,以逐步協助學生修習EMI課程。
- (二) 鼓勵學生修讀EMI課程:2024年至少5%大二及碩一學生修習至少1門全英語授課課程、2030年至少10%大 二及碩一學生,修習至少2門全英語授課課程。



Common European Framework of Reference for Languages.

Main objectives of the CEFR:

- ⇒ promoting plurilingualism and diversification in the choice of languages in the curriculum
- ⇒ supporting the development and demonstration of the **plurilingual profile** of individual learners
- ⇒ developing and reviewing the content of **language curricula** and defining positive 'can do' descriptors adapted to the age, interests and needs of learners
- ⇒ designing and developing **textbooks** and teaching material
- ⇒ supporting **teacher education** and cooperation among teachers of different languages
- ⇒ enhancing quality and success in learning, teaching and assessment
- ⇒ facilitating transparency in testing and the comparability of certifications

CEFR Levels & Proficiency

- The CEFR provides <u>a common basis</u> for the elaboration of language syllabuses, curriculum guidelines, examinations, textbooks, etc. across Europe.
- "One thing should be made clear: the CEFR does not set out to tell practitioners what to do, or how to do it. It raises questions but doesn't provide ready-made anwers. It is not the function of the Common European Framework of Reference to lay down the objectives that users should pursue or the methods they should employ."

CEFR Levels & Proficiency

DDOCIGIENT	C2	Can understand with ease virtually everything heard or read. Can summarise information from different spoken and written sources, reconstructing arguments and accounts in a coherent presentation. Can express him/herself spontaneously, very fluently and precisely, differentiating finer shades of meaning even in more complex situations.
PROFICIENT USER	C1	Can understand a wide range of demanding, longer texts, and recognise implicit meaning. Can express him/herself fluently and spontaneously without much obvious searching for expressions. Can use language flexibly and effectively for social, academic and professional purposes. Can produce clear, well-structured, detailed text on complex subjects, showing controlled use of organisational patterns, connectors and cohesive devices.
INDEPENDENT	B2	Can understand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisation. Can interact with a degree of fluency and spontaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed text on a wide range of subjects and explain a viewpoint on a topical issue giving the advantages and disadvantages of various options.
USER	B1	Can understand the main points of clear standard input on familiar matters regularly encountered in work, school, leisure, etc. Can deal with most situations likely to arise whilst travelling in an area where the language is spoken. Can produce simple connected text on topics which are familiar or of personal interest. Can describe experiences and events, dreams, hopes & ambitions and briefly give reasons and explanations for opinions and plans.



CEFR and TOEIC

	NUITA 4- 15		分數範圍	CEFR 分數對照					
測驗名稱		項目 		A1 入門級	A2 基礎級	B1 進階級	B2 高階級	C1 流利級	C2 精通級
		總分	10-990						
多		聽力	5-495	60	110	275	400	490	
多益系列	TOEIC® Tests	閱讀	5-495	60	115	275	385	455 ¹	
列 測		總分	-			550	785	945	
驗		口說	0-200	50	90	120	160	180	
		寫作	0-200	30	70	120	150	180	

Comparison Chart

TOEFL	IELTS	TOEIC	Cambridge exam	CEFR Level	Skill level
118-120	9		CPE	C2	
115-117	8.5		CPE	C2	Mastery or proficiency
110-114	8	975-990	CAE / CPE	C2/C1	
102-109	7.5	966-974	CAE	C1	
94-101	7	945-965	CAE	C1	Effective operational proficiency
79-93	6.5	900-960	FCE	C1/B2	
65-78	5.5-6.0	785-940	FCE	B2	Vantage or upper intermediate
53-64	4.5-5	785-795	FCE	B2/B1	
41-52	4	670-780	PET	B1	
35-40	3.5	550-665	PET	B1	Threshold or intermediate
30-34	3	225-545	KET	A2	Waystage or elementary
19-29	2.0-2.5	171 -220		A1	
0-18	1.0 - 1.5	120 -170		A1	Breakthrough or beginner

TOEIC in Taiwan

Table 1: Mean Performance by Native Country

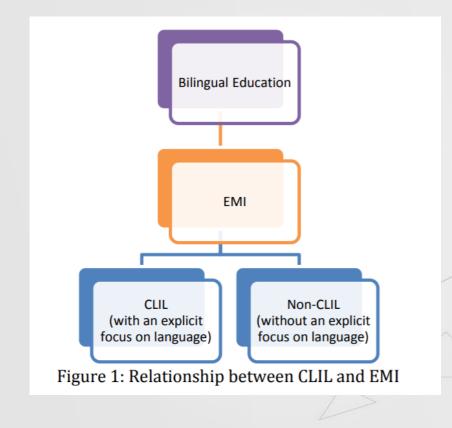
Country	Liste	ening	Reading		Total	
Country	Mean	(SD)*	Mean	(SD)*	Mean	(SD)*
CHINA, PEOPLE'S REPUBLIC	275	(107)	258	(112)	533	(212)
HONG KONG	330	(108)	259	(121)	589	(223)
INDIA	357	(106)	317	(103)	674	(200)
INDONESIA	229	(104)	162	(87)	391	(183)
JAPAN	296	(94)	236	(100)	531	(186)
KOREA (ROK)	377	(81)	306	(103)	683	(176)
MALAYSIA	354	(94)	281	(114)	634	(202)
PHILIPPINES	417	(65)	357	(85)	773	(142)
TAIWAN	308	(101)	256	(107)	564	(201)
THAILAND	279	(105)	206	(102)	485	(200)
TUNISIA	403	(80)	347	(88)	750	(161)
VIETNAM	266	(100)	225	(103)	491	(195)

CEFR and TOEIC

必須破除的常見迷思:

- · TOEIC scores are just an "estimate".
- Many students with high TOEIC scores (>800) still can't write properly, much less carry out a simple conversation.







The CLIL/EMI cline



Focusing on mastering the content

Focus on mastering language skills

English language class

subject course objectives
English class with

English class reinforcing some

Subject course balanced with English-learning objectives

Subject course in English-learning context

Subject course in English-speaking context

ELT

content

some subject

Soft CLIL

Hard CLIL

EMI

Interviewed 7 undergrads & 3 faculty members.

Higher Education https://doi.org/10.1007/s10734-018-0323-5



An analysis of Japan's English as medium of instruction initiatives within higher education: the gap between meso-level policy and micro-level practice

Ikuya Aizawa 1 D · Heath Rose 1 D

Impact factor

4.634 (2020)

Published online: 03 November 2018

5.171 (2020) Five year impact factor

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Interviewed 7 undergrads & 3 faculty members.

Table 1 Information of students (source: student interviews)

Participants	Year	Gender	Proficiency (CEFR)	Major
Tomoya	1	Male	A2 (low)*	N.A.**
Ryo	1	Female	C2 (high)*	N.A.**
Minami	2	Female	A2 (low)*	N.A.**
Asuka	2	Female	B1 (middle)*	N.A.**
Kohei	3	Female	A2 (low)*	Sociology
Daisuke	3	Male	B1 (middle)*	Economics
Mikiko	3	Male	C2 (high)*	Biology

Table 2 Information of teaching faculty members (source: staff interviews)

Participants	Position	Gender	Proficiency	Department
Atsuki-sensei	Director of department	Female	High (C2)***	Linguistics
Yujo-sensei	Professor	Male	High (C2)***	Business
Seyo-sensei	Lecturer	Male	High (C1)***	Sociolinguistics

^{***}Faculty members' self-rated English proficiency according to CEFR

Five students explained that they had experienced difficulty in understanding lecture content due to instructors accented or poor English, as illustrated by the following except:

I had difficulty in understanding what my lecturer was saying because of his thick Japanese accent.... He assigned a lot of reading materials written in Japanese, so I wish he also had used Japanese when conducting lectures. (Mikiko, High C2, 3rd year student)

Teachers also observed language-related challenges associated with delivering EMI classes. Seyo-sensei (Linguistics Lecturer), who had only studied and taught in Japan, mentioned problems with his English when conducting EMI courses, including a need to speak more slowly, coupled with increased time pressure to prepare EMI lectures. Yujo-sensei (Business Professor), who completed his PhD in an English-speaking country, also indicated issues surrounding EMI:

There are some drawbacks of teaching in English. I have to spend much more time on preparation for my class. In English there are certain topics I'm not comfortable teaching, whereas in Japanese I can teach almost anything freely in my field. The quality of E courses taught by a Japanese teacher can easily be lower.

Table 6 Prob	ems regarding	teachers'	English	proficiency	(source:	student	interviews)
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Source	Course	Lecturer's L1	Problems
Mikiko	Japanese linguistics	Japanese	Lecturer had a strong foreign accent.
		-	 Lecturer used Japanese when he could not find English words.
Daisuke	Gender and sexuality	Japanese	 Lecturer only used simple English words.
			 Lecturer spoke too slowly.
Tomoya	Linguistics	Chinese	 Lecturer had a strong foreign accent.
Minami	Translation studies	Japanese	 Lecturer had a strong foreign accent.
			 An exam paper was written in poor English.
Kohei	Global studies	Japanese	 Lecturer had a strong foreign accent.
			 Lecturer was reading everything from notes.

<u>EMI in Japan</u>

Language of instruction

MESO LEVEL: English-only instruction

MICRO LEVEL: Mixed-language instruction

Students' English proficiency

MESO LEVEL: Students' threshold set at IELTS 6.5 to ensure EMI preparedness

MICRO LEVEL: Students have linguistic challenges above and below threshold

Teachers' English proficiency

MESO LEVEL: Teachers must be able to conduct courses in English

MICRO LEVEL: Teachers' have linguistic challenges at all proficiency levels

English language support

MESO LEVEL: Language support in preparatory ELA is sufficient for EMI study

MICRO LEVEL: Students need continued support throughout EMI

Fig. 2 A gap in EMI implementation between the meso and micro level

As a result, universities seek to appease MEXT by showing numerically measurable EMI growth and internationalisation in other sectors of the university, rather than focusing on the contextualised micro-level implementation challenges. The implications for this research may require universities to reconsider unrealistic language proficiency targets and proposed increases in EMI programme numbers, lest they risk improper implementation at the micro level due to linguistic and pragmatic constraints. This will ensure future policy is informed by both top-down wants and bottom-up needs.

The current study also indicated that EMI teachers expressed difficulty in teaching in English, regardless of the level of their English proficiency. In other words, even high proficiency teachers at this case reported linguistic challenges. This finding does concur with research findings by Borg (2015) that highly proficient teachers in Iraq stated EMI implementation was challenging due to limited linguistic abilities. Thus, teaching challenges may be more pervasive in emerging EMI contexts, such as Japan and the Middle East, than in more mature contexts like Northern and Western Europe. Such findings indicate a need for EMI teacher training, because merely being proficient in English and being an expert in a subject area does not indicate that a lecturer is qualified to teach that subject area in an EMI setting.

EMI in HK

Journal of Pan-Pacific Association of Applied Linguistics, 20(1), 135-155.

Fine-Tuning Medium-of-Instruction Policy in Hong Kong: Acquisition of Language and Content-Based Subject Knowledge

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- Interviewing 11
 teachers from 2
 different schools
 teaching Secondary 2
 Mathematics, Science,
 Geography, and
 History.
- Interviewing 4
 Secondary 2 students
 from each school.

From 2 HK Two-Medium Schools

	Teachers' View	Students' View				
/ 	Spend <u>a lot of time</u> on preparing of teaching content-based knowledge through English.	Generally <u>like</u> the idea of learning content-based subjects through English, and agreed <u>EMI helps to improve English proficiency</u> .				
	AT first, EMI class is more <u>quiet</u> than the CMI class, because students <u>afraid to voice out in English</u> .	Extra efforts and strategies are required.				
	Weaker students already had problems with understanding, EMI made their <u>learning slower</u> .	Most students admitted using their <u>L1 Chinese</u> to process knowledge and <u>higher-order thinking</u> , even when subjects are taught in English.				
	But agreed that students' <u>English improved</u> when learning content-based subjects through English.	If teachers use both English and Chinese together, it is confusing and worse as they need to remember two sets of words.				
		Higher-ability students think English seems <u>easier to</u> <u>understand</u> .				

https://files.eric.ed.gov/fulltext/EJ1110725.pdf

EMI in HK

Recommendations:

- Code-mixing and code-switching are useful strategies in helping students to make the transition from CMI to EMI in learning content knowledge. They are, however, temporary strategies only and should not be made permanent.
- With the support of both content-based subject teachers and English teachers, students should continue to strengthen their English in order to reach the upper threshold level so that their CALP can be transferred between L1 and L2, thus facilitating the cognitive processing of subject knowledge.
- Since metalinguistic is crucial for bilingual learning but contentbased subject teachers are not language experts, it is essential to have collaboration between content-based subject panels and English language subject panel. Therefore, Language Across the Curriculum (LAC) is worth promoting as a school policy.

語碼轉換

(code-switching): 指語言使用者在句間的 語言轉換,主要發生在 句子間的分界處。

語碼混用

(code-mixing):

指語言使用者在句內的 語言轉換,主要發生在 句子內部。

EMI in HK

Recommendations:

4. Hong Kong has a long history of practising English-medium instruction without any awareness that EMI is, in essence, a model of CLIL. It is high time to make conscious efforts to promote CLIL, which requires close collaboration between content-based subject panels and English language subject panel, if the Hong Kong government wants to have effective implementation of the fine-tuning MOI policy.

English-Medium Instruction in Engineering Education

Practices, Challenges, and Suggestions

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An academic course "Computer
Networking" was taught to a 69-student class bilingually, and to another 72-student class in English.

Published in: 2017 IEEE 6th International Conference on Teaching, Assessment, and Learning for Engineering (TALE)

Date of Conference: 12-14 Dec. 2017 INSPEC Accession Number: 17486746

Date Added to IEEE Xplore: 11 January 2018 **DOI:** 10.1109/TALE.2017.8252338

III. DATA COLLECTION AND ANALYSIS

A. Students' test scores

Table I shows the distributions of the students' test scores by calculating the percents of students in each grade. In 2016, with bilingual teaching method, the 69 students' scores were concentrated between 40 points to 80 points; in 2017, with applying EMI, the 72 students' scores were well differentiated, and it showed an overall improvement.

The students with better English abilities reflected that in the bilingual class, the Chinese explanations made them feel bored, and no pressure to read the textbooks after lectures. But we couldn't cover all the contents in the classroom, so the students only got the basic idea. In the EMI class, even less contents were covered in the lectures, but the students reflected that they were pushed to read more materials by themselves, so not only the academic knowledge but also their academic English have been improved. But to the students whose English proficiency is not adequate, they did suffer a lot for EMI. My students were from many different parts of China, it is normal that their English abilities are in different levels. That will be an important factor to be considered for the course-selection policy maker.

TABLE I. THE DISTRIBUTIONS OF STUDENTS' TEST SCORES

Test	Perc	ents
Scores	2016	2017
A(100-90)	0	1.39
B(89-80)	0	13.89
C(79-70)	10.14	27.78
D(69-60)	46.38	33.32
E(59-)	43.48	23.62

B. Students' labs scores

Table II shows the students' labs scores and the percents of students in each grade. There is no significant difference between two years labs scores' distributions. During labs the students often preferred using Mandarin to interact with the teachers. But during the labs, EMI students were obviously more familiar with the English academic concepts and terms used in the specified software and devices.

In IT field, most of the academic developing tools are originally in English version. The students need to get used to them for the future study and work.

TABLE II. THE DISTRIBUTIONS OF STUDENTS' LABS SCORES

Labs	Pero	ents
Scores	2016	2017
A(100-90)	18.25	25
B(89-80)	22.22	33.34
C(79-70)	58.32	41.66
D(69-60)	1.21	0
E(59-)	0	0

TABLE III. THE SURVEY RESULTS OF THE STUDENTS ATTITUDES TO EMI

Students'	Percents				
Attitudes	EMI should be promoted in engineering education.	I'd like to take a EMI academic course.			
Strong Agreement	22	10			
Agreement	68	45			
Disagreement	10	43			
Strong Disagreement	0	2			

TABLE IV. THE SURVEY RESULTS OF THE STUDENTS ENGLISH ABILITIES

Students' Attitudes	Percents	
	My English is getting worse since I entered the college.	A specified English course is necessary.
Strong Agreement	36	36
Agreement	39	59
Disagreement	23	5
Strong Disagreement	2	0

Challenges and Suggestions:

- Shortage of EMI instructors.
- Lack of interaction in the classroom.
- Teaching methods and teaching hours.
- Performance assessment.

Summary from these 3 research

- Mismatch between what the top wants and what the bottom can deliver.
- Varied language proficiency levels among students and faculty members.
- Shortage of good EMI instructors.
- Need a change in cognition for both instructors and students.
- Need continued support for instructors and students.
- Need collaboration between content & English instructors.

EMI in Taiwan - 困難與迷思

- Varied language proficiency levels among students and faculty members.
- Incompatible goals between and among the government (agencies), university, faculty, students, parents, and society.
- Cannot use Chinese at all.
- Priority English-focused or Subject/Content-focused?

The 4Cs of CLIL for Taiwan

Content Factor

1. Basic (Core) Subjects

- Increase compulsory hours, focus on building English competencies in Freshmen and Sophomore years before starting EMI courses in Junior and Senior years.

2. Resources

- Library and online free resources.
- Any type of content should be encouraged.
- English podcasts and Youtube videos.

A new language is a new life. Persian proverb

teamiapanese.com

The 4Cs of CLIL for Taiwan

Communication Factor

1. Start Now

- Start small and simple; and use it often.
- Switch between languages in the beginning.

To have another language is to possess a second soul >>

Charlemagne

www.bilingualkidspot.com

2. Taiwanese-English or heavily accented

- So what?! We are not native speakers so we are bound to have accents.
- As long as we can get the idea across, it is good enough (as a start).

The 4Cs of CLIL for Taiwan

Cognition & Cultural Factor

1. Throw away the clutches

- Stop relying on translated texts.
- By immersion; Learn / Lead by examples.
- Find your motivation(s).

2. Change in Expectation

- Don't be shy or be afraid of imperfection.
- Knowing some is better than knowing none.
 - International Opportunities 與國際接軌

One who speaks only one language is one person, but one who speaks two languages is two people.

Turkish Proverb

teamiapanese.com

Concerns in Engineering & IT Education

Beware of the jargon monster

- Need to understand what the terms meant.
- Need to remember them.
- Need to apply them within appropriate situations.
- Need to build on them to learn further.
- Pronunciation / Accent (same word, different sound).
- Content is difficult enough in L1 for students to grasp.
- Understand the English but don't understand the concept.





Reference



Cambridge English

Teaching Science through English a CLIL approach



Content First

- Curricular content leads to language learning.
- Learners need to
 - develop accurate use of engineering and IT language.
 - communicate their knowledge of concepts, processes, functions, and purposes.
 - ask relevant questions, analyze ideas, evaluate experimental evidence, and make conclusions and justify them.

Content First

- Learners need to know both content-obligatory and content-compatible language.
- "For every academic topic, certain language is essential for understanding and talking about the material." (Snow, Met & Genesee, 1992).

Content First

Content-obligatory language:

- Every subject has its own content-obligatory language associated with specific content.
- Students need to know the subject-specific vocabulary, grammatical structures, and functional expressions in order to learn, communicate, and be a part of.

Content-compatible language.

- Non-subject specific language that learners may have learned in their English classes.
- Use to communicate more fully about the curricular subject.

A. Activating prior knowledge:

- Learners may already know somewhat about a topic in their L1
 but may have difficulty explaining this knowledge in L2.
- When brainstorming or having discussions, expect learners to use some L1 and then translate.

B. Input and Output:

- Teachers need to plan the input, i.e. the information that is being presented in class – Will it be delivered orally, in writing, on paper, electronically?
- Teachers need to plan for learner output How are learners going to produce and communicate what they learned?

c. Wait Time:

- Refers to the time teachers wait between asking questions and learners answering them.
- When subjects are taught in a non-native language, a longer wait time than usual is needed so that learners can process new subject concepts in a new language.
- This is especially important at the start of new courses so that all learners are encouraged to take part in classroom interaction.

D. Collaborative Tasks:

- Include tasks that involve learners in producing key subject-specific vocabulary and structures in meaning pair or group work activities.
- Let learners help each other learn.
- Activities and tasks should support the processing of new concepts and language.

E. Cognitive Challenge:

- Learners usually need considerable support to develop their thinking skills in a non-native language.
- They need to communicate not only the everyday functional language practiced in many English classes, they also need to communicate the cognitive, academic language of the subject (engineering and IT).
- Critical to providing scaffolding, i.e. content and language support strategies that are appropriate but temporary.
- Learners might need more support and for a longer period of time in one subject than in another.

F. Developing Thinking Skills:

- Teachers need to ask questions that encourage lower order thinking skills (LOTS), e.g. the what, when, where, and which questions.
- Teachers also need to ask questions that demand higher order thinking skills (HOTS). These involve the why and how questions, and therefore require the use of more complex language.
- In Engineering & IT, learners often have to answer higher order thinking questions at an early stage of learning.

- Teachers need to feel confident about their English language level:
 - Be able to present and explain concepts in their subject area clearly and accurately.
 - Check <u>pronunciation of subject-specific vocabulary</u> which may look similar to other words in English but have different pronunciations.
 - Be able to use <u>appropriate classroom language</u> to present new concepts, to question, paraphrase, clarify, encourage and manage their classes in English.

II. Use of L1 during lessons:

- It is recognized that some use of L1 by learners, and sometimes by teachers, is a bilingual strategy that helps learners communicate fluently.
- Moving between L1 and the target language, either midsentence or between sentences, is quite common for learners.
- Code-switching and code-mixing as temporary stop-gap measures.

II. Use of L1 during lessons:

- Classroom observations show that use of L1 and the target language happens between learners in the following interactions:
 - Clarifying teachers' instructions.
 - Group negotiations/discussions.
- It is important that teachers avoid using L1 unless they are in a situation where using L1 would benefit or reassure learners.

III. Lack of Materials:

- Not that applicable in the higher education context.
- Availability of 原文書 with presentation slides, examination questions, and additional online resources.
- Teachers might have to include L1 terminology (中文詞彙) to aid in understanding.

iv. Assessment:

- Teachers are unsure whether to assess content, language, or both.
- There should be consistency in how learners are assessed across courses in each department.
- Learners, parents, and other colleagues need to know what learners are being assessed on and how they are being assessed.

iv. Assessment:

- Performance assessment (PA) involves learners in demonstrating their knowledge of content and language.
- Teachers observe and assess learners' performance using specific criteria.
- PA can also be used to evaluate the development of communicative and cognitive skills as well as attitude towards learning.

A. What teachers can do:

- Use online resources (hear the pronunciation of vocabulary, use grammar reference book, use Youtube videos, etc.).
- Highlight the subject-specific vocabulary learners need and present new words in topic-related word banks rather than in alphabetical order.
- Make sure learners know the functional language needed to talk about their subject area.

- B. How can teachers plan for CLIL?
 - Learning outcomes and objectives
 - Teachers first need to consider the learning outcomes of each lesson, each unit of work and each course.
 - Learning outcomes are learner-centered as they focus on what the learners can achieve rather than on what the teacher is teaching.

- B. How can teachers plan for CLIL?
 - ь. Subject content
 - Learners need to hear subject-specific language more than once, so revisiting a new concept is necessary.
 - To revisit concepts, teachers should present learners with different tasks that demand different language skills but are aimed at the communication of the same concepts.

- B. How can teachers plan for CLIL?
 - c. Communication
 - As CLIL promotes collaborative learning, teachers need to plan group work activities so that learners can communicate the language of the subject topic.
 - Communicative activities should be integrated during the lesson, rather than left to the end of the class.

- B. How can teachers plan for CLIL?
 - d. Thinking and learning skills
 - Teachers need to plan and sometimes practice types of questions they will ask to develop both types of thinking.
 - Teachers need to <u>plan how to support learners in</u>
 <u>developing learning skills</u>, such as planning, following
 instructions, making observations, handling data, drawing
 conclusions, and evaluating results.

- B. How can teachers plan for CLIL?
 - e. Tasks
 - Teachers need to think about the kind of tasks learners will do during the lesson and as a follow-up.
 - It is important to plan a range of tasks that require different levels of challenges.

- B. How can teachers plan for CLIL?
 - f. Language support
 - Teachers need to plan to support the language of input and the language of output.
 - ✓ Input provide a C-E terminology definition and/or explanation.
 - Output word-level and sentence-level support.

- B. How can teachers plan for CLIL?
 - g. Materials and resources
 - Many textbooks provide lessons slides and videos.
 - Teachers need to familiarize themselves with the material and continue to modify it to suit the level and requirement of their learners.
 - Teachers might need to create their own quizzes and classroom activities to help learners learn better.

- B. How can teachers plan for CLIL?
 - h. Assessment
 - It is important to link the assessment of learning to the attainment of learning outcomes for the lessons.
 - Assessment criteria have to be <u>transparent and consistent</u>.

Possible Strategies

Table 2. Teachers' Strategies Used in EMI Lessons	Table 2.	Teachers'	Strategies	Used	in	EMI	Lessons
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	ble 2. Teachers' Strategies Used in
G	eneral/cognitive strategies
-	providing subject-specific vocabulary
	lists
_	using visual aids
	(pictures/videos/models/diagrams)
-	showing steps and procedures clearly
	& systematically
-	using Q and A (probing)
-	using examples
-	providing hints
_	using repetitions
-	providing notes
-	providing worksheets
-	providing a summary
-	designing activities
_	arranging group discussions
-	making use of group dynamics (e.g.
	putting students of different abilities

in the same group)

Language-specific strategies

- using simple English
- teaching some phonics
- asking students to read aloud some English terms
- dictation of new terms
- rephrasing
- grammar
- code-mixing
- code-switching
- using Chinese to explain difficult concepts

Poon, A.Y., & Lau, C.M. (2016). Fine-Tuning Medium-of-Instruction Policy in Hong Kong: Acquisition of Language and Content-Based Subject Knowledge. Journal of Pan-Pacific Association of Applied Linguistics, 20, 135-155.

Possible Strategies

Table 3: Students'	Strategies	Used in	EMI Lessons

	Table 3: Students' Strategies Used in EN	11 Lessons			
_	General/cognitive strategies	Language-specific strategies			
	Relying on teachers' design of lessons and worksheets	Using dictionary			
	Relying on teachers' explanation	Using L1			
	Using prior knowledge	Switching between L1 and L2 Using simple words			
	Identifying key words	Watching English TV programmes			
	Using examples	Watching films			
	Using notes	Reading subject-related materials on			
Asking teachers/ friends/private tutors		the Internet			

Poon, A.Y., & Lau, C.M. (2016). Fine-Tuning Medium-of-Instruction Policy in Hong Kong: Acquisition of Language and Content-Based Subject Knowledge. Journal of Pan-Pacific Association of Applied Linguistics, 20, 135-155.

The use of Educational Technologies

- 1. To engage students and make them want to keep on learning (on their own).
- 2. To make lessons more memorable (thus more permanent).
- 3. To revise concepts taught, anytime anywhere.
- 4. To allow students to learn (relearn) at their own pace.



The use of Educational Technologies



Articles on Educational Technologies

- 1. The 101 Hottest EdTech Tools According to Education Experts (Updated For 2020)
- 2. <u>5 Terrific Technology-based Tools for the Foreign Language Classroom</u>
- 6 Ed Tech Tools to Try in 2021
- 4. <u>5 Technology Tools Reshaping Higher Education Classrooms</u>
- 5. <u>27 Tech Tools Teachers Can Use to Inspire Classroom Creativity</u>
- 6. 75 digital tools and apps teachers can use to support formative assessment in the classroom

The bulk of the load rests upon Instructors

- 1. We need to first overcome our own reluctance (and frustrations).
- 2. We need to be willing to work twice or thrice as hard to prepare for EMI courses and keep improving them.
- 3. We need to show the way and lead by example.
- 4. We need to collaborate and help each other.
- 5. Students will be able to sense and appreciate our efforts, eventually.

Suggestions from a non-professional

- 1. Stop trying to be perfect! Just keep improving.
- 2. Stop obsessing over accents and grammar!
- 3. Start small and/or simple.
- 4. Find something you like and do it consistently.
- 5. Make full use of technology.
- 6. Feel free to switch between English and Chinese.
- 7. Start reading aloud. Read like no one is listening.
- 8. Learn and grow together. Share resources.

Back to Taiwan's 2030 Goal

It will take longer than 2030 for Taiwan to achieve a "bilingual" status.

Yet, we have to start somewhere, some time, so why not let it be NOW?!

This goal will NOT succeed if all teachers do not support and dedicate themselves (ourselves) to it.

缺一不可!! 真的就靠大家了!