Planning and Teaching of
Technology Education Key Learning Area Curriculum
and Business Learning Elements
at Junior Secondary Level (Refreshed)

規劃及教授 初中科技教育學習領域課程 及商業學習元素(修訂)

CSD020240116

Technology Education Section, EDB

11 March 2024

Part 1 第一部分

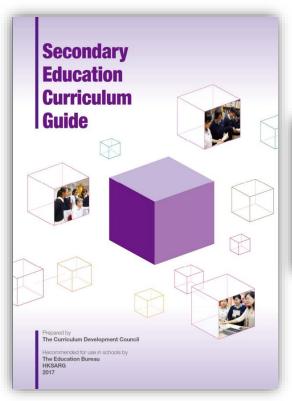
The implementation of TE KLA curriculum (including business learning elements) through holistic curriculum planning at junior secondary level

學校於初中階段通過整體課程規劃以實施科技教育學習領域課程

Highlights of issues when planning and implementing business learning elements at junior secondary level 在規劃與實施初中商業學習元素時的重點事項

Business Learning in S1-S6

Secondary Education Curriculum Guide (Secondary 1 – 6) (2017)





Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6)



Focus: whole-school curriculum planning and implementation in school

Source: Secondary
Education Curriculum
Guide (Secondary 1 – 6)
(2017), Booklet 1,
para.1.6.4,, p.23
https://www.edb.gov.hk/
attachment/en/curricul
um-development/majorlevel-ofedu/secondary/curricul
um-guidesdocuments/SECG_book
let_1_en.pdf

The Updated Seven Learning Goals of Secondary Education

To enable students to:

National & Global Identity

- become an informed and responsible citizen with a sense of national and global identity, appreciation of positive values and attitudes as well as Chinese culture and respect for pluralism in society;
- acquire and construct a broad and solid knowledge base, and to understand contemporary issues that may impact on students' daily lives at personal, community, national and global levels;

 Breadth of Knowledge
- become proficient in biliterate and trilingual communication for better study and life; Language Proficiency
- develop and apply generic skills in an integrative manner, and to become an independent and self-directed learner for future study and work;
- use information and information technology ethically, flexibly and effectively; Information Literacy
- understand one's own interests, aptitudes and abilities, and to develop and reflect upon personal goals with aspirations for further studies and future career; and

 Life Planning
- lead a healthy lifestyle with active participation in physical and aesthetic activities, and to appreciate sports and the arts.

 Healthy Lifestyle

Generic Skills

Source: Secondary Education Curriculum Guide (Secondary 1 – 6) (2017), Booklet 2, Figure 2.6, p.11-12 https://www.edb.gov.hk/attachment/en/curriculum-development/renewal/Guides/SECG%20booklet%202_en_2018 0831.pdf

Figure 2.6 Components of the JS Curriculum and Allocation of Time Note 1

Con	aponent of the JS Curriculum	% of Time Allocation	No. of Hours	
	Chinese Language Education	17-21%	468-578	
	English Language Education	17-21%	468-578	
	Mathematics Education	12-15%	331-413	
Key	Science Education	10-15%	276-413	
Learning Area	Personal, Social and Humanities Education Note 2	15-20%	413-551	
	Technology Education Note 3	8-15%	220-413	
	Arts Education	8-10%	220-276	
	Physical Education	5-8%	138-220	
	Sub-total of the lower range of lesson hours over 3 years	92%	2 534	

Note 3 All secondary schools should allocate about 25 lesson hours to the teaching of programming concepts including coding within the Information & Communication Technology knowledge context under the TE KLA at the JS level.

Across Key Learning Areas	Flexibility is provided for: Values education (including moral and civic education, Basic Law education) and guidance to complement values education across KLAs Additional common	8%	About 220 hours over 3 years
	reading time School Assembly/Class teacher period to complement values education across KLAs Remedial or enhancement studies in KLA(s) or across KLAs Other cross-curricular activities and broadening learning experiences such as community service, co-curricular activities, and aesthetic and physical activities to complement life-wide learning Remarks: The deployment of flexible time may vary from term to term (e.g. life skills education in the 1st term, remedial study of Chinese Language in the 2nd term of the year and enhancement study of English Language throughout the school year).		
Note 1 Ac th	Total lesson hours over 3 years	100%	2 754

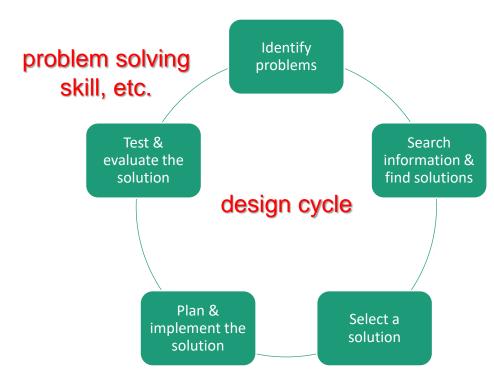
Note 1 As there is an increasing need for schools to organise cross-curricular learning and teaching (e.g. STEM education, Language across the Curriculum, values education) while closely integrating these with life-wide learning activities for students' consolidated learning, application and whole-person development, the allocation of time for respective KLA/subjects can be more flexibly and integratively handled with due regard for individual school contexts and needs.

Note 2 All secondary schools should allocate about 5% of the total lesson time for the JS level, or about two lessons per week, to the study of Chinese History under the PSHE KLA at the JS level.

Note 3 All secondary schools should allocate about 25 lesson hours to the teaching of programming concepts including coding within the Information & Communication Technology knowledge context under the TE KLA at the JS level.

Learning of Technology Education in school curriculum

- Technology is the purposeful application of knowledge, skills and experience in using resources to create products [tools/services] or systems to meet human needs
- Technology education is the learning of how human beings solve their daily problems and how the process could be replicated and transferred to solve new problems that arise from time to time
- Students are provided with ample opportunities to realise their ideas through hands-on experiences which cater for their interests and learning styles



design and make

Co-curricular activities and Other Learning Experiences to complement life-wide learning

TE KLA Curriculum Framework (S1-6)

Aims:

- Technological literacy
 - technological capability,
 - technological understanding and
 - technological awareness

Curriculum Framework:

- Junior Secondary Level
 - An open and flexible curriculum framework. The six TE knowledge contexts with 16 core and 10 extension learning element modules
- Senior Secondary Level
 - The updated curriculum framework in KS4 with the five elective subjects

Primary Level	Junior Secondary Level	Senior Secondary Level
(P1 - 6)	(S1 - 3)	(S4 - 6)
General Studies	TE KLA Curriculum (S1-3) (fully implemented in the 2016/17 school year)	Elective Subjects: Business, Accounting and Financial Studies (BAFS) Design and Applied Technology (DAT) Health Management and Social Care (HMSC) Information and Communication Technology (ICT) Technology and Living (TL) (Food Science and Technology/Fashion, Clothing and Textiles)

Note: The TE KLA Curriculum (S1-3) comprises 6 Knowledge Contexts, namely Information & Communication Technology, Materials & Structures, Operations & Manufacturing, Strategies & Management, Systems & Control, and Technology & Living.

Source: Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6), page 6, Figure 1

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<u>Source:</u> Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6), page 6, Figure 1

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Source: Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6), page 54, Figure 8

Figure 8 Modules of Learning Elements (Core and Extensions) under the Six Knowledge Contexts at the Junior Secondary Level

Knowledge contexts	Modules*			
Information and	K1	Computer Systems	Understand and apply ICT as	
Communication	K2	Programming Concepts	a prime tool for learning and	
Technology (ICT)	K16	Information Processing and Presentation	in our daily life	
	E1	Computer Networks		
Materials and	K3	Materials and Resources	Understand the importance of	
Structures	K4	Structures and Mechanisms	materials and resources in the	
	E2	Material Processing	design process	
Operations and	K5	Tools and Equipment	Understand how to manage	
Manufacturing	K6	Production Process	the resources and processes	
	E3	Project Management	required to realise their design solutions	
Strategies and Management	K7	Business Environments, Operations and Organisations	Understand the concepts of business and management	
	E4	Resources Management	1	
	E5	Marketing	1	
Systems and	K8	Concepts of System	Understand the concepts,	
Control	K9	Application of Systems	applications and implications	
	E6	System Integration	of both micro and macro	
	E7	Control and Automation	systems	
Technology and	K10	Food and Nutrition	Understand how technology	
Living	K11	Food Preparation and Processing	affects our lives and enhance the nurturing of quality	
	K12	Fabric and Clothing Construction	people and quality homes	
	K13	Fashion and Dress Sense	1	
	K14	Family Living	1	
	K15	Home Management and Technology		
	E8	Fabric and Clothing Construction	1	
	E9	Fashion and Dress Sense	-	
	E10	Home Management and	-	
		Technology		

K denotes Core modules and E denotes Extension modules

TE KLA Curriculum Framework (S4-6)

Aims:

- Technological literacy
 - > technological capability,
 - > technological understanding and
 - > technological awareness

Curriculum Framework:

- Junior Secondary Level
 - An open and flexible curriculum framework. The six TE knowledge contexts with 16 core and 10 extension learning element modules
- Senior Secondary Level
 - The updated curriculum framework includes KS4 with the five elective subjects

Primary Level (P1 - 6)	Junior Secondary Level (S1 - 3)	Senior Secondary Level (S4 - 6)
General Studies	TE KLA Curriculum (S1-3)	Flective Subjects
	(fully implemented in the 2016/17 school year)	Business, Accounting and Financial Studies (BAFS) Design and Applied Technology (DAT) Health Management and Social Care (HMSC) Information and Communication Technology (ICT) Technology and Living (TL) (Food Science and Technology/Fashion, Clothing and Textiles)

Note: The TE KLA Curriculum (S1-3) comprises 6 Knowledge Contexts, namely Information & Communication Technology, Materials & Structures, Operations & Manufacturing, Strategies & Management, Systems & Control, and Technology & Living.

Source: Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6), page 6, Figure 1

Latest Development for TE KLA

(EDBCM 109/2023)-

高小

- 2023/24 學年開始。學校於高小安排每年每級10-14小時的編程教育

初中

- 在「資訊和通訊科技」 知識範圍安排不少於百 分之三十的課時教授程 式編寫的概念
- 於2023/24學年開始在初中推行「初中人工智能課程單元」單元佔10至14小時
- 涵蓋人工智慧基礎、人工智慧倫理、電腦視覺電腦語音和語言、虛擬實境、機械人、社會影響和未來工作等課題,進一步鞏固學生的計算思維和加強創科學習

高中

- 2023年修訂的高中 ICT課程
- 必修部分(144小時)
 - 計算思維與程式編寫 (由24課時增至 48課時)
 - 》 加入創新科技的課題,例如人工智能
- 選修部分 (76小時)
 - 三選二
 - 數據庫
 - 網絡應用程式開發
 - 算法與程式編寫

升學/就業

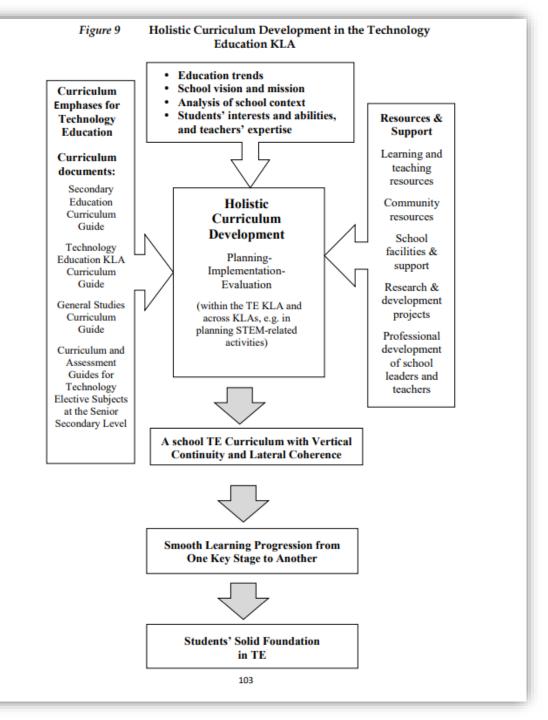
- 熟練地運用資訊 及通訊科技作為 支援學科的學習 工具
- 持續進修資訊及 通訊科技,以達 至業界認可程度, 並在工作上有效 地運用資訊及通 訊科技
- 成為具道德操守的科技使用者
- 應用創科能力, 造福社會及世界





Holistic Curriculum Development in School

Source: Technology Education Key Learning Area Curriculum Guide (Primary 1 to Secondary 6), Fig.9, page 103



Implementation of TE KLA Curriculum

<u>Source</u>: Technology Education Key Learning Area Curriculum Guide (Primary 1 to Secondary 6), Fig. 10, page 121

Subject-based learning

e.g. Computer Literacy, Design & Technology, Home Economics/Technology and Living

 Aligning subjects/ knowledge contexts

e.g. projects, cross-KLA studies

 Collaborative teaching of subjects/knowledge contexts e.g. learning elements of different subjects clustered to form modules, cross-KLA studies

Theme-based learning

e.g. projects, LWL, cross-KLA studies

• Life experiences of students

e.g. projects, LWL, cross-KLA studies,

Others

Implementation of TE KLA Curriculum

<u>Source</u>: Technology Education Key Learning Area Curriculum Guide (Primary 1 to Secondary 6), Fig. 10, page 121

- Subject-based learning
- Aligning subjects/ knowledge contexts
- Collaborative teaching of subjects/knowledge contexts
- Theme-based learning
- Life experiences of students
- Others

e.g.

- Remedial or enhancement studies in KLA(s) or across KLA(s)
- School Assembly / Class teacher period to complement values education across KLAs
- Moral and Civic Education to complement values education across KLAs
- Class reading sessions
- ECA & OLE to complement LWL

Part 1 第一部分

The implementation of TE KLA curriculum (including business learning elements) through holistic curriculum planning at junior secondary level

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Business Learning Elements included in the TE KLA

Source: Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6), page 5, para.1.3

1.3 Position of the Technology Education Key Learning Area in the School Curriculum

Curriculum Framework

1.3.1 TE is one of the eight KLAs that each student is entitled to study. It provides students with the essential knowledge contexts that are related to the improvement of everyday living, and the social and economic development. TE helps keep Hong Kong students abreast of technological advancement in the world. The contexts within which technology operates include areas like home, design, food, business and finance, information and communication, creative media, engineering, etc. which should be updated whenever required.

central curriculum

1.3.2 Technology learning experiences focus on how human beings solve their daily life problems and how the process could be replicated and transferred to solve new problems that arise from time to time. Hence technology education is also an effective platform for nurturing students' problem solving skills, creativity and critical thinking skills, and for promoting learning by doing. Students are provided with ample opportunities to realise their ideas through hands-on experiences which cater for their interests and learning styles. Technology education helps students develop the knowledge and skills for further studies, for work, or both, as well as cultivate their attitude as lifelong learners for the betterment of their adult life.

implementation

1.3.3 The existing school subjects under the TE KLA curriculum (see Figure 1) are of diversified orientations. Schools should gradually move towards a balanced study of knowledge, key concepts, skills, values and attitudes promulgated in the TE curriculum to satisfy the diverse interests and needs of students. Some subjects will be phased out and new ones phased in to align with the changes in the school curriculum and academic structure.

content coverage

Business Learning Elements included in the TE KLA Curriculum Framework ... recap

Technological literacy -

- technological capability,
- technological understanding and
- technological awareness

Business Learning

Technological literacy	Example for illustration	
technological capability	 using IT tools to help identify needs/ problems/opportunities in business being able to make informed choices in business (design thinking in business: empathize>define>ideate>prototype>test) 	
technological understanding	 keep abreast with technological trend for better adoption/adaptation to innovative technology (using AI in social media marketing success) 	
technological awareness	 the impact of technological change on business (impact on business model, changes in deployment of resources, etc.) 	

Business Learning Elements included in the TE KLA Curriculum Framework ... recap

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Source: Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6), page 54, Figure 8

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Systems and	K8	Concepts of System	Understand the concepts,
Control	7		applications and implications
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	K15	Home Management and	
		Technology	
	E8	Fabric and Clothing]
		Construction	
	E9	Fashion and Dress Sense	1
	E10	Home Management and	
	1	Technology	

Business Learning Elements included in the TE KLA Curriculum Framework ... recap

Knowledge context – Strategies and Management	Module K7 Business Environments, Operations and Organisations	720 mins i.e. 18 lessons (40 minutes a lesson)
	Module E4 Resources Management	210 mins i.e. 5-6 lessons (40 minutes a lesson)
	<i>Module E5</i> Marketing	150 mins i.e. 3-4 lessons (40 minutes a lesson)

Primary Level (P1 - 6)	Junior Secondary Level (S1 - 3)	Senior Secondary Level (S4 - 6)
Business Learning	TE KLA Curriculum (S1-3)	Elective Subjects:
Ecarting	(fully implemented in the 2016/17 school year)	 Business, Accounting and Financial Studies (BAFS) Design and Applied Technology (DAT) Health Management and Social Care (HMSC) Information and Communication Technology (ICT) Technology and Living (TL) (Food Science and Technology/Fashion, Clothing and Textiles)

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Source: Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6), page 6, Figure 1

Business Learning Elements included in the TE KLA

Curriculum Framework

Source: Technology Education Key Learning Area Curriculum Guide (Primary 1 – Secondary 6), page 80

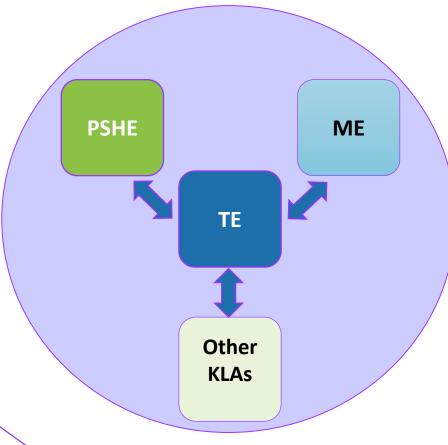
ICITES	IIICIUUC	d III tile I L ILA	_
Knowledge context	Learning element	Content	
Strategies and Management	(K7) Business Environments, Operations and Organisations	Business environments: economic, technological, cultural & physical, social- political-legal Main industries in Hong Kong Characteristics of business environment of Hong Kong Economic – a separate free market economy Technological – sophisticated telecommunication systems and transportation infrastructure Physical – close to Mainland, serving as the bridge between China and other parts of the world Cultural and Social –a skilled and high quality workforce Political-legal –Types of intellectual property rights include copyright, trademark, patent and registered design; and understand the value of intellectual	
		property and possible ways of protection Impact of globalisation on business in Hong Kong Different types of business organisations Major forms of business organisations: sole proprietorship, partnership and limited company Characteristics of an entrepreneur Decision making, planning, organisation, control, evaluation, and quality assurance in business operations and projects Functions of planning, organising, leading and controlling in management	
		Responsibilities of a business in providing a safe environment	

Business-related learning across KLAs at junior secondary level

 Collaboration among KLAs and subjects achieves synergy in enhancing the overall effectiveness of learning and teaching in school

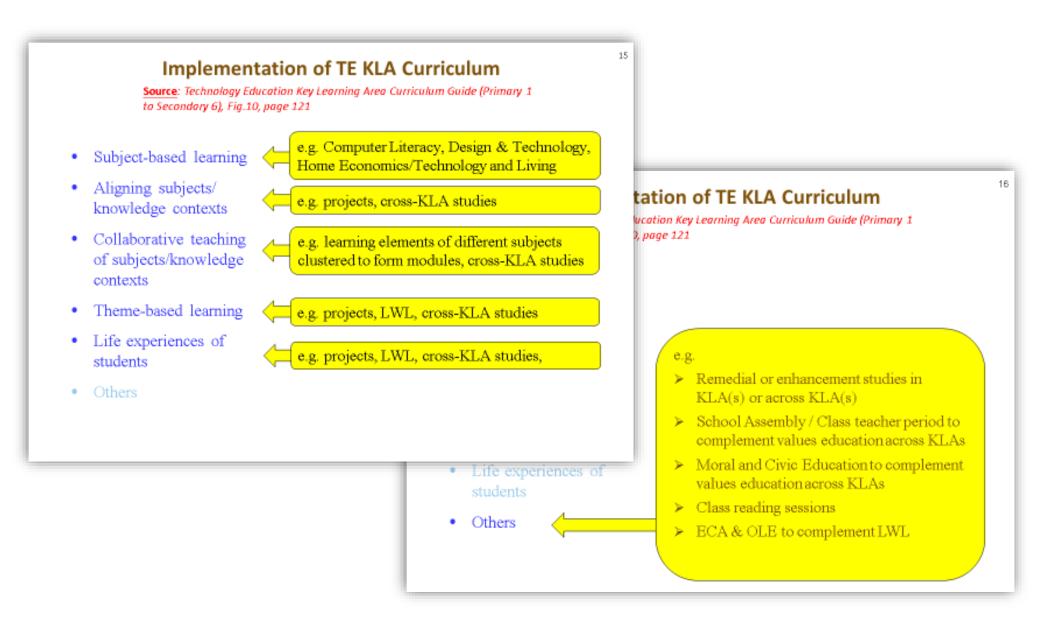
 To develop knowledge and skills to facilitate the acquisition of knowledge, skills, values and attitude

 To provide subject-based or real-life contexts to promote a deeper learning and for consolidation, integration and application of knowledge and skills

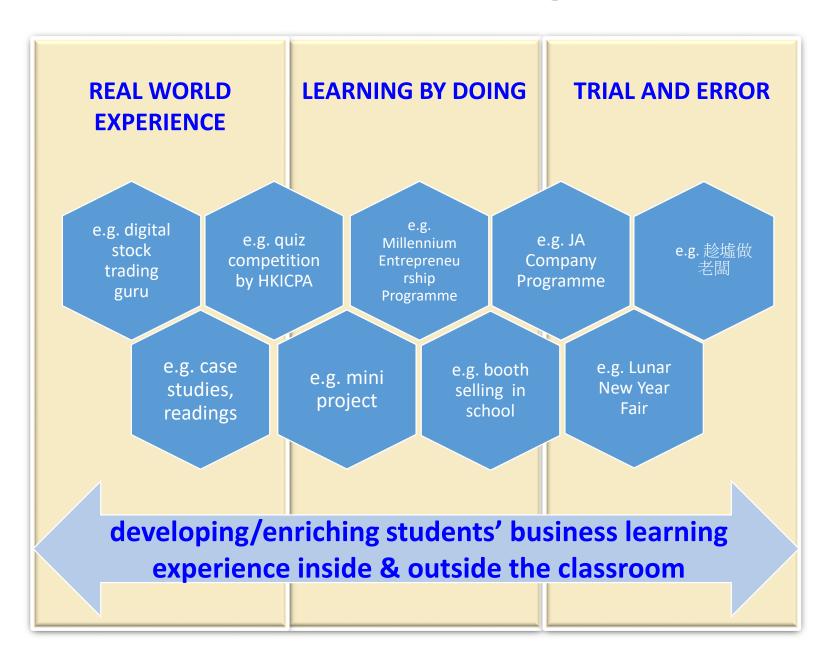


Design thinking skills, IT skills, MIL, entrepreneurial spirit, entrepreneurship, communication skills, financial literacy

Implementation of Business Learning Elements ... recap



Implementation of Business Learning Elements

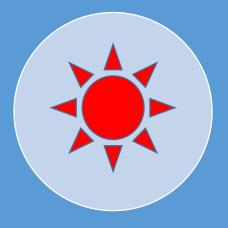


Implementation of Business Learning Elements



Mindset

e.g. how to think? how to put idea into action?



Attitude

e.g. how to deal with uncertainty, changes, challenges, volatility...?



Values

e.g. stay positive, be perseverance, responsibility, compliance...

Mind · Action/Behaviour · Decision Making/Choice

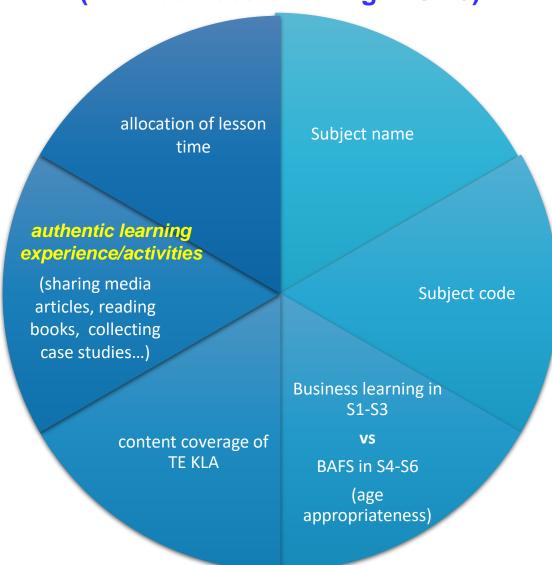
Implementation of Business Learning Elements

Source: Technology Education Key Learning Area Curriculum

Guide (Primary 1 to Secondary 6), Fig. 10, p. 121

(For Business Learning in S1-3)

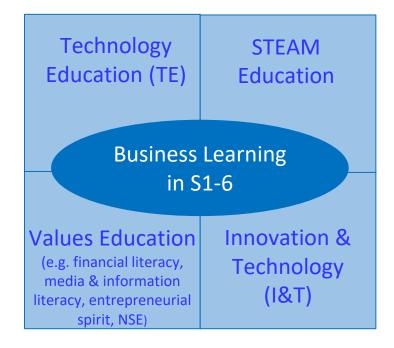
- Subject-based learning
- Aligning subjects/ knowledge contexts
- Collaborative teaching of subjects/knowledge contexts
- Theme-based learning
- Life experiences of students
- Others



Support Measures to Enhance Business Learning in S1-6

Educational Multimedia Resources (EMM)

BAFS Thematic Seminars & Company visits



Financial Education "Teacher & Student" Series

Student Activities Supported/Co-organised by EDB & community partners

To recap...PDPs for Teachers & Students

Briefing Session on 13 Oct 2023

Financial Education "Teacher & Student" Series: Basics of Fintech (New) (Online Course)

理財教育「師生」系列:基礎金融創料 (新辦) (網上課程)

CSD020240118

Date 日期 : 23/03/2024 (Saturday 星期六) 2024.03.23

Time 時間 : 10:30 am - 11:30 am

Delivery Zoom Meeting (Details will be sent to participants via email after successful

Mode enrolment in TCS)

進行模式 : Zoom Meeting (經培訓行事曆成功取錄的參加者,將獲發電郵通知詳情)



To recap...Student Activities



https://www.dflp4youth.com/tc/index.html



https://www.hkicpa.org.hk/en/Membership/smp/Experiential-business-learning-programme





https://wsemep.org/mep-24/

To recap...FinEdu School Award Scheme

	Dates	Important events
	26 June to 31	➤ Issuance of EDBCM
	November	No.103/2023
	2023	Briefing Sessions on The
		Scheme on 10 July & 14
		Sept 2023
		Application period of The
		Scheme (2023/24)
\bigcap	October 2023	A series of financial education
	to June 2024	activities for teachers and
L		students to participate in
	Mid-June to	Participating schools'
	15 July 2024	submission of "Tier 1 Record
		Form" or/and "Tier 2 Record
		Form" from school applicants
	August to	Assessment process of The
	September	Scheme (2023/24)
	2024	
	Mid October	Prize Presentation Ceremony
	2024	cum Awarded Schools' Sharing
		for the "Financial Education
		School Award Scheme
		(2023/24)"



Upcoming PDPs...

Business, Accounting and Financial Studies



BAFS Learning and Teaching Resources Platform

https://cd1.edb.hkedcity.net/cd/te/bafs_platform/en/events-professional-development-programmes.html

Course Code: CSD020230622

BAFS Thematic Seminar (6): Design Thinking in Business (Online Seminar) (New)

The captioned PDP will be conducted on 7 May 2024. Please click on the URL below for course details and enrolment.

Eng	https://tcs.edb.gov.hk/tcs/edmin/courses/previewCourse/forPortel.htm?courseId=CSD020230622&leng=en
Chi	https://tcs.edb.gov.hk/tcs/edmin/courses/previewCourse/forPortel.htm?courseId=CSD020230622&leng=zh

Course Code: CSD020230621

BAFS "Entrepreneur Stories": A Grassroots Leader Being the Super-connector in the Greater Bay Area (New)

The captioned PDP will be conducted on 11 April 2024. Please click on the URL below for course details and enrolment.

Eng	https://tcs.edb.gov.hk/tcs/edmin/courses/previewCourse/forPortel.htm?courseId=CSD020230621&leng=en	
Chi	https://tcs.edb.gov.hk/tcs/edmin/courses/previewCourse/forPortel.htm?courseId=CSD020230621&leng=sh	

Course Code: CSD020240118

Financial Education "Teacher & Student" Series: Basics of Fintech (New) (Online Course)

The captioned PDP will be conducted on 23 March 2024. Please click on the URL below for course details and enrolment.

Eng	https://tcs.edb.gov.hk/tcs/edmin/courses/previewCourse/forPortel.htm?courseId=CSD020240118&leng=en	
Chi	https://tcs.edb.gov.hk/tcs/edmin/courses/previewCourse/forPortel.htm?courseId=CSD020240118&leng=sh	