

【數理科及STEM】

「善用互動遊戲化資源 激發學習動機」網上簡介會



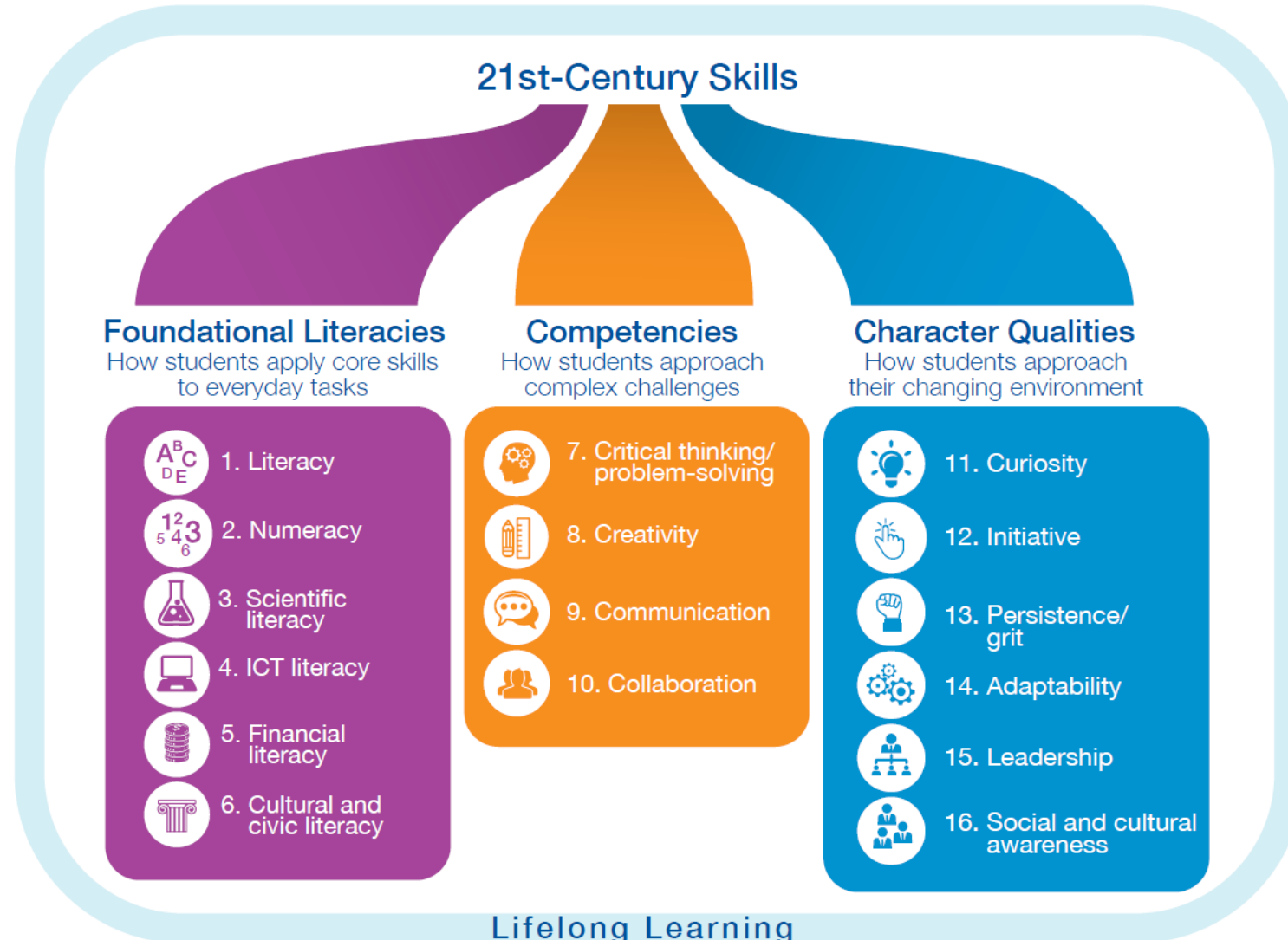


eResources Adoption Programme (eREAP)

www.hkedcity.net

21st Century Learning

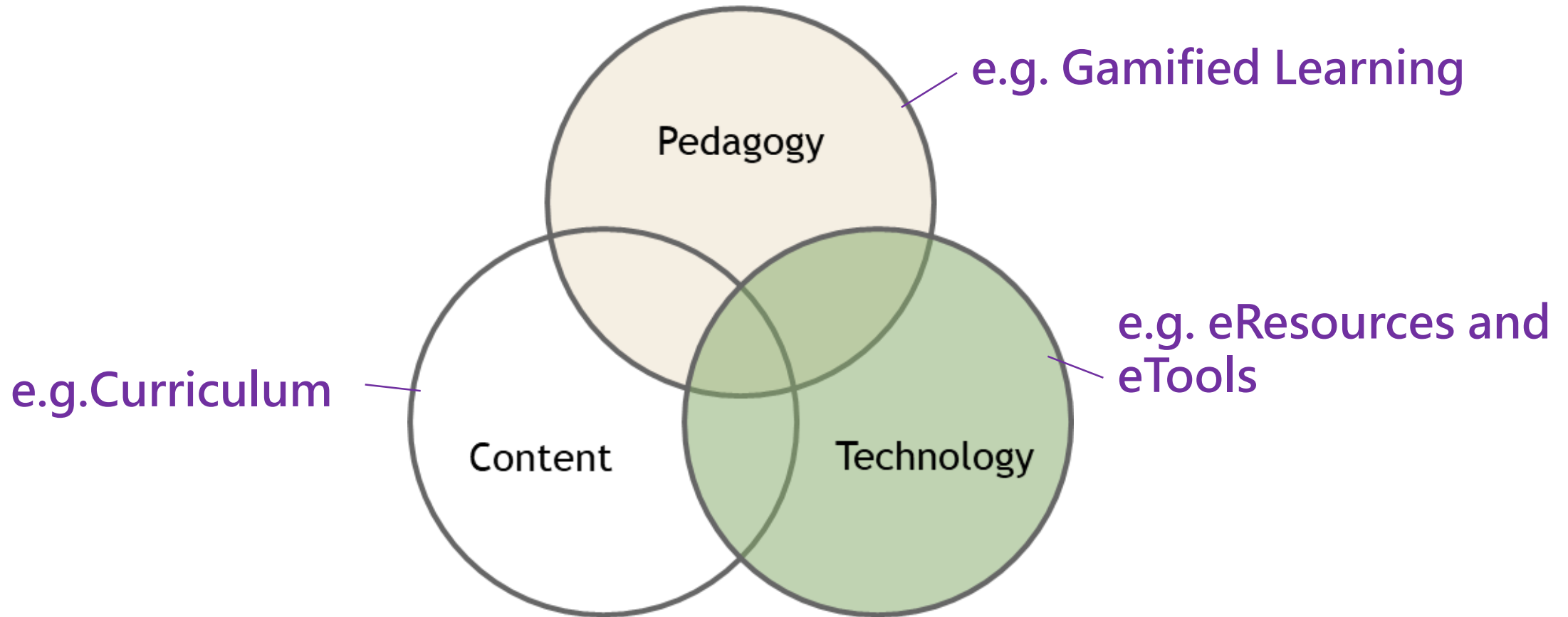
Exhibit 2: Students require 16 skills for the 21st century



How eResources can help in 21st Century Learning and Teaching?



TPACK



[“Technological Pedagogical Content Knowledge: A Framework for Teacher Knowledge.”](#) Punya Mishra and Matthew J. Koehler 2006.

eResources Adoption Programme (eREAP)

- Sourcing **quality eResources** from education solutions providers locally and around the world
- eLearning resources and tools covering **major subjects, cross-KLAs** and **non-academic areas**
- **Free trial period** for schools
- **HKEdCity supports** throughout the trial
- **Bulk purchase model** is offered after trial period



eREAP Features



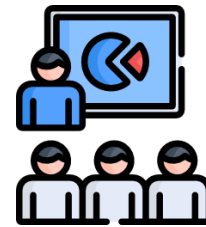
Support from HKEdCity



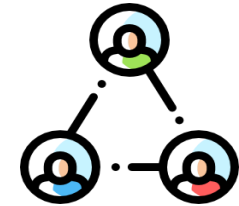
Website



Account provision



Training workshops



Community building



School cases



Newsletters



Student schemes



Long-term
adoption support

Features of eResources

Gamified / Experiential Learning



A.I. voice recognition



Social & emotional Learning



Problem-solving



Reading cross-over Coding



STEM / Coding



Multimodal learning



eREAP resources

– Covers different subjects in primary and secondary schools



A thick vertical blue line on the left side of the slide, extending from the top to the bottom.

Learning Tools

seppo^o

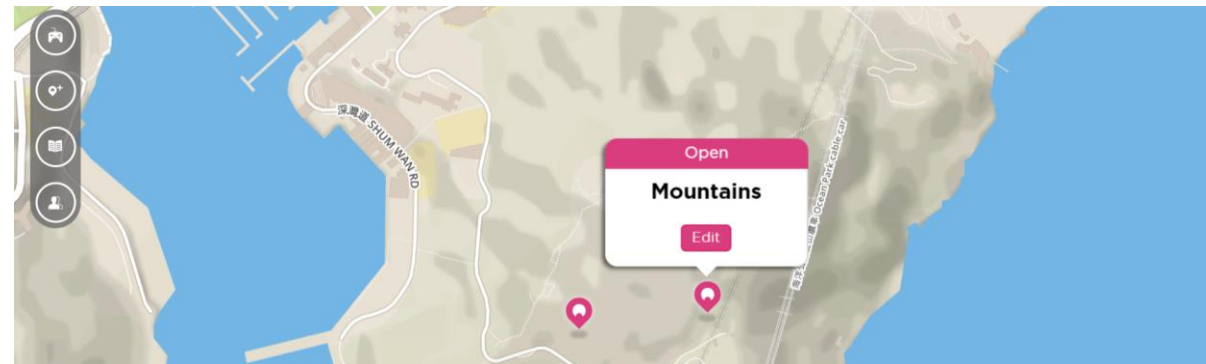
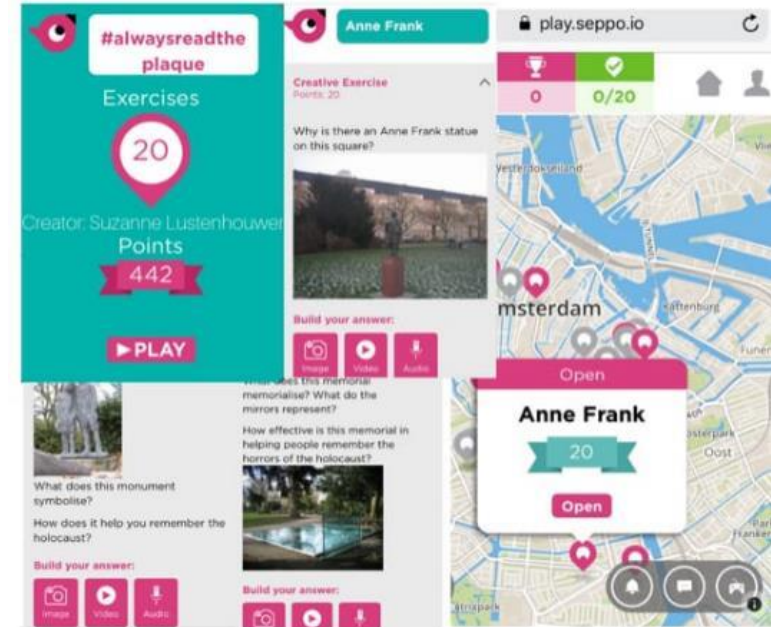
- Gamified Learning
- Create educational orientation games for learning outdoors or indoors
- Diverse question types with instant feedbacks
- Collaborate with teams
- Immersive Learning
- Use mobile devices online and offline
- Real-time monitoring and feedback

KLA
•All

Key Stage
•1 - 4

Support Platform

www Web





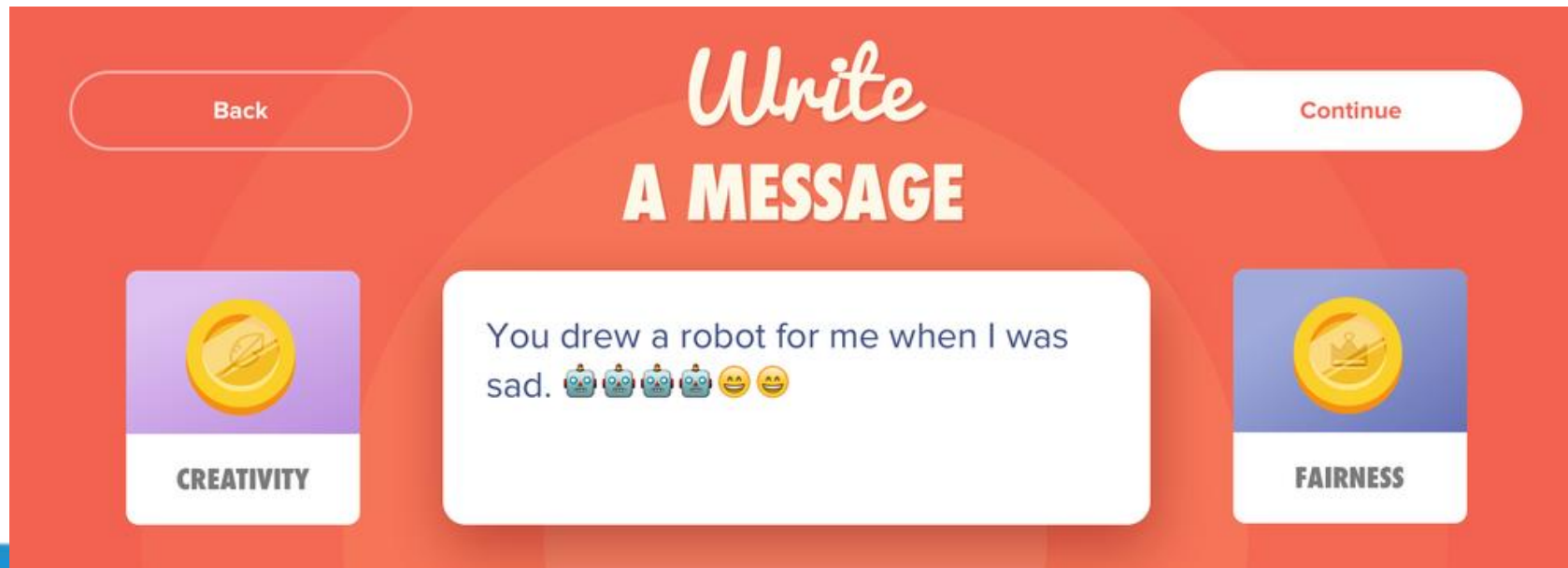
KLA
• All

Key Stage
• 1 - 2

Support Platform



- ▶ Tool for **social and emotional education**
- ▶ Activities to build **27 Character Strength**
- ▶ A Measure to classroom's social well-being





STEM



DYSTØPIA 2153

A project by TEACH Magazine

- Integrates **coding** and **reading**
- Encourages problem-solving skills, creativity and abstract thinking.

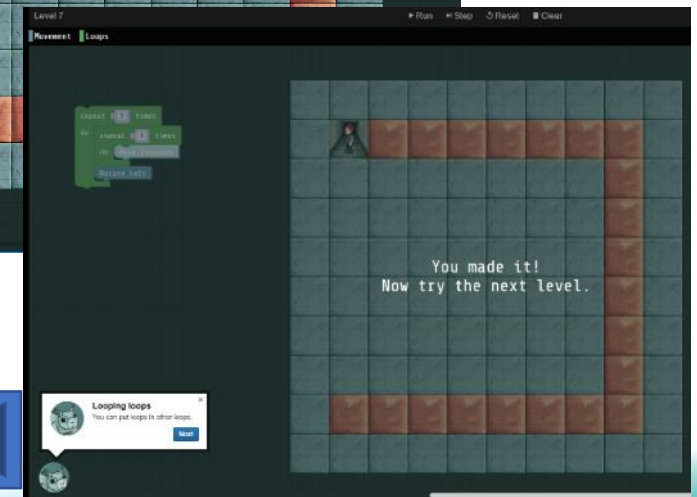
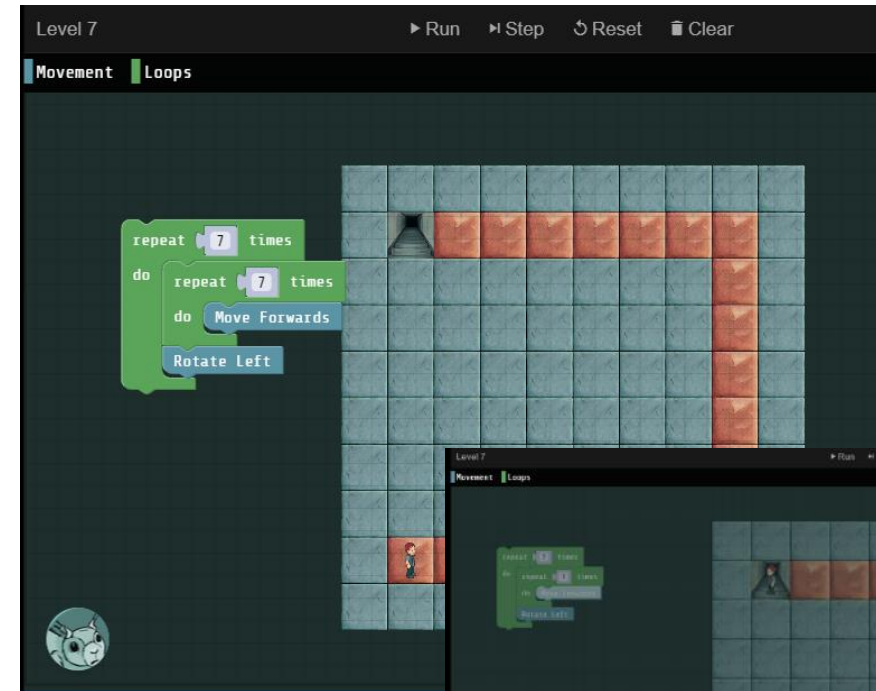
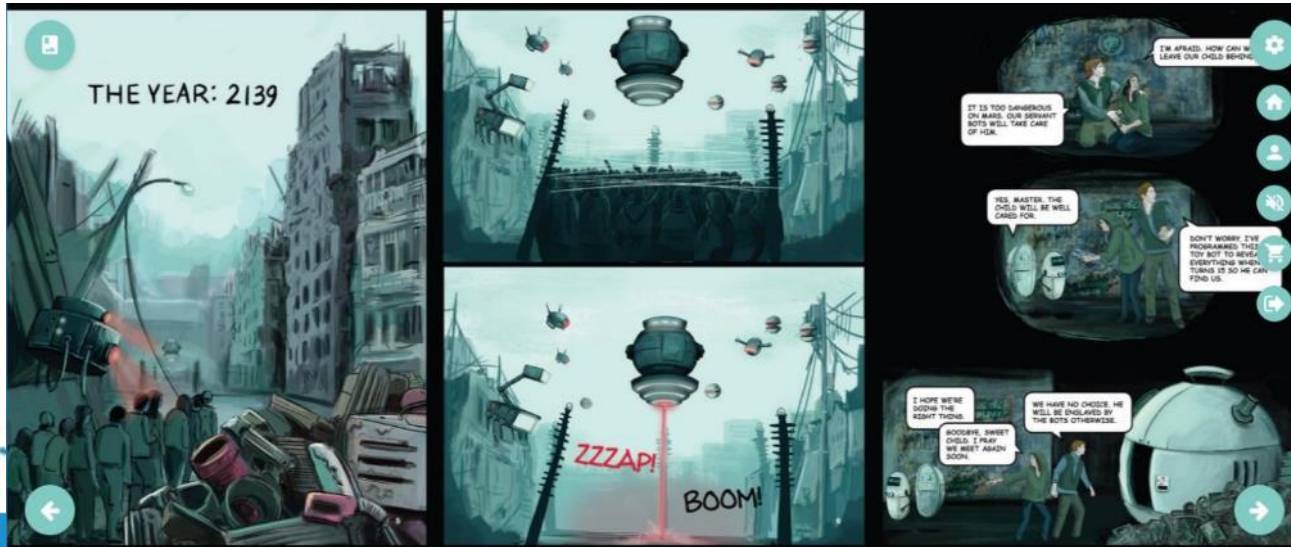
KLA

- English
- ICT
- Cross KLA

Key Stage

• 2 - 3

Support Platform





CODEMONKEY

KLA
• All

Key Stage
• 1 - 3

Support Platform



- Game-based online **coding platform**
- Teacher dashboard for teachers to **monitor students' performance** and convenient for scoring
- **Flexible lesson plan** for each coding courses, include both online and offline classroom activities



 **esri** China HONG KONG **ArcGIS Online**

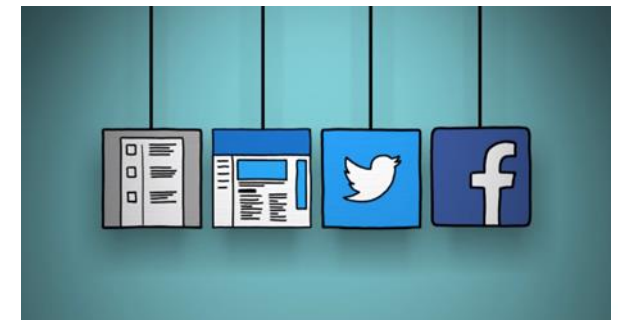
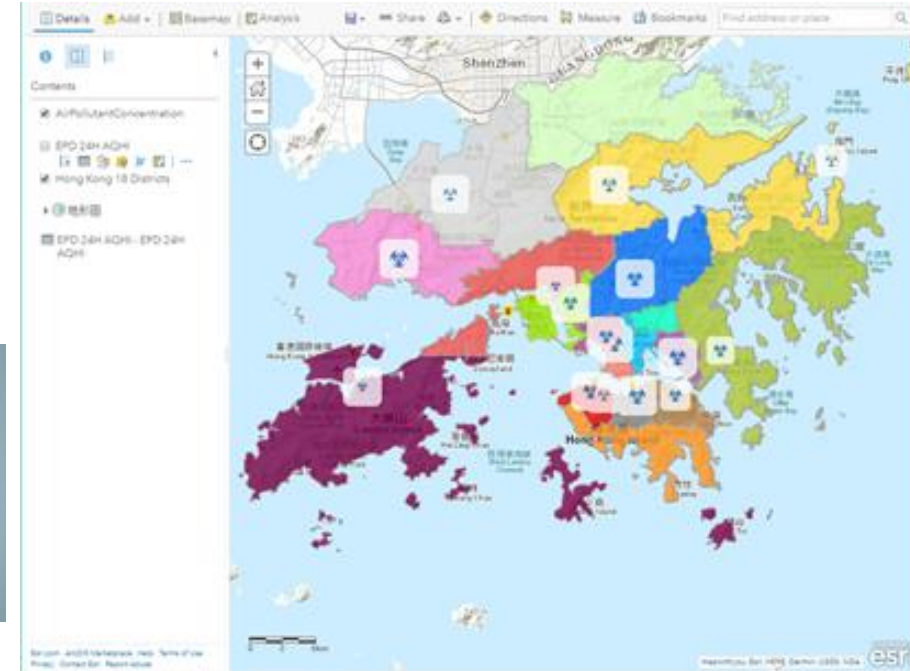
KLA
•All

Key Stage
•2 - 3

Support Platform



- Cloud-based mapping platform 'ArcGIS Online'
- Diverse functions such as Story Maps, Create maps etc.
- Suitable for **Inquiry-based learning**, Project-based learning etc.
- Suitable for **Geography, STEM, General Studies, Liberal Studies, History** etc.





Maths & Science



KLA

• Mathematics

Key Stage

• 2 - 4

Support Platform



- Matches with the curriculum in Hong Kong
- Adaptive mode task types, hints and timely feedback
- Handwriting recognition
- **Hints and videos** to assist students' learning. Each step will be recorded and evaluated.

Number sentences are a way of describing a situation using mathematics. Like written sentences, number sentences have some specific structure. Specifically they must have an equal sign and the value on either side of the equal sign must be the same.

In maths, we also call number sentences equations.

We can think of number sentences like scales. The equals sign is the middle of the scales



However, different combinations of numbers can add up to the same amount. For example, $6 + 4$ adds up to 10 but $5 + 5$ also equals 10.



The law of transitivity states that if $a = b$ and $a = c$, then $b = c$.

Using our example, we can say that if $6 + 4 = 10$ and $5 + 5 = 10$, then $6 + 4 = 5 + 5$.

Examples

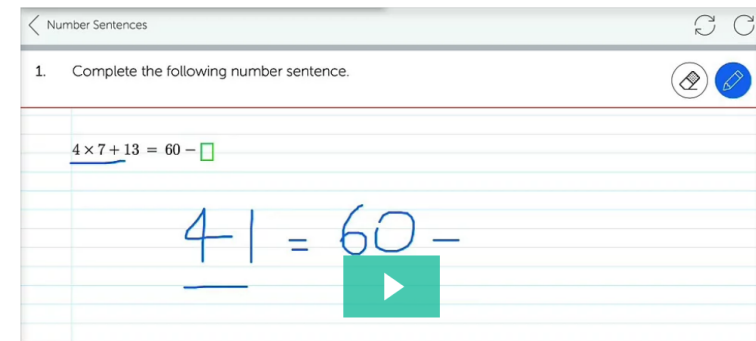
QUESTION 1

Which of the following is a correct number sentence?

A) $8 + 19 = 34 + 7$ B) $8 + 19 = 20 + 7$ C) $8 + 19 = 23 + 7$ D) $8 + 19 = -20 + 7$

QUESTION 3

Complete the following number sentence: $4 \times 7 + 13 = 60 - \square$



- Interactive Mathematics learning platform enhances young learners' logical thinking and problem-solving
- Questions are compatible to the **World Class Tests**
- Arrange question order to fit learners' needs
- **Performance Summary** helps learners understand their strengths

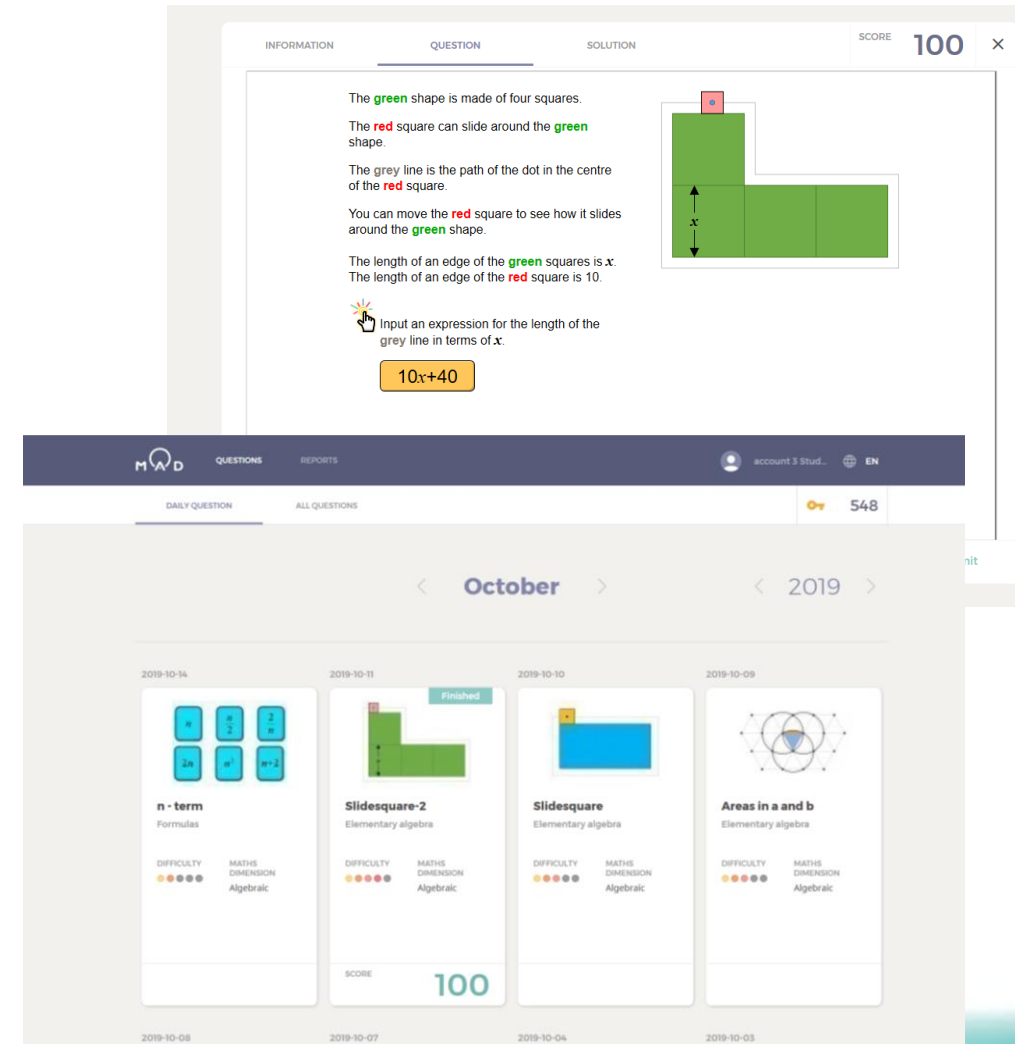
KLA

• Mathematics

Key Stage

• 1 - 3

Support Platform

The screenshot displays the Learnlex interface. The top section shows a question about a green shape composed of four squares. The text reads: "The green shape is made of four squares. The red square can slide around the green shape. The grey line is the path of the dot in the centre of the red square. You can move the red square to see how it slides around the green shape. The length of an edge of the green squares is x . The length of an edge of the red square is 10." Below this, there is an input field for the length of the grey line in terms of x , with the answer $10x+40$ entered. The score for this question is 100.

The bottom section shows a performance summary grid for October 2019. The grid contains four question cards:

- n-term Formulas** (2019-10-14): Difficulty 3 stars, Maths Dimension Algebraic.
- Slidesquare-2** (2019-10-11): Finished, Difficulty 3 stars, Maths Dimension Algebraic, Score 100.
- Slidesquare** (2019-10-10): Difficulty 3 stars, Maths Dimension Algebraic.
- Areas in a and b** (2019-10-09): Difficulty 3 stars, Maths Dimension Algebraic.



KLA

• Science

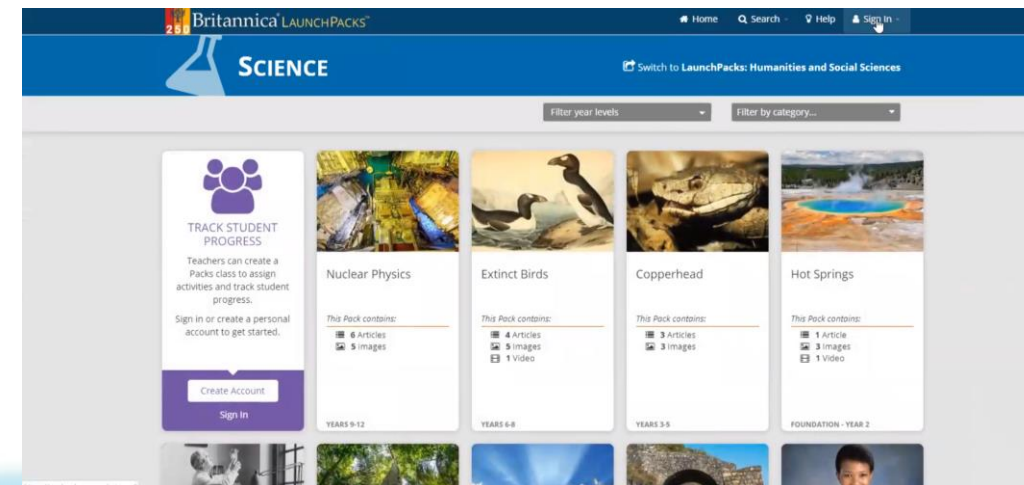
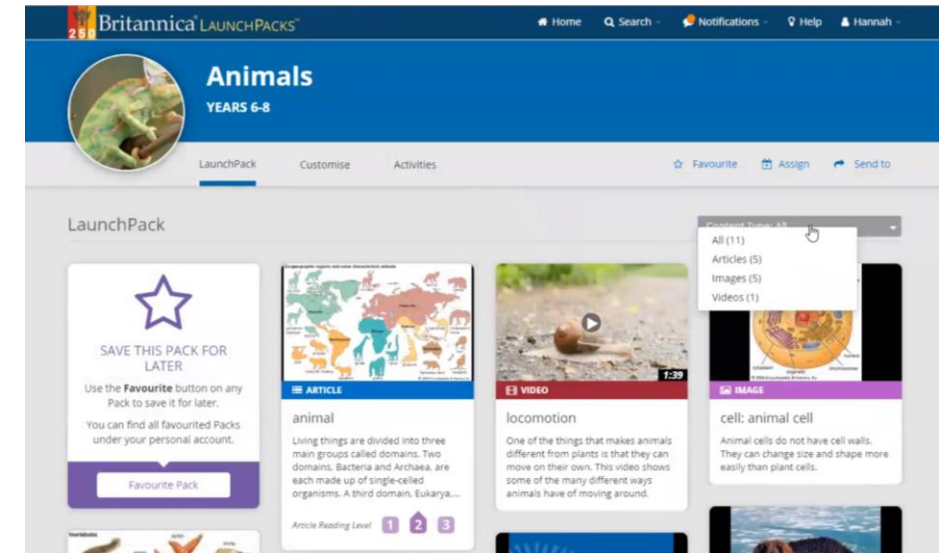
Key Stage

• 1 - 4

Support Platform



- Over **1,700 Packs** with diverse **multimedia resources** such as: Articles, Images, Videos, Primary Sources and Websites
- Organised and **customisable resources**
- **Differentiated levels** of contents
- Build critical-thinking skills and enhance student literacy skills





- Suitable for Hong Kong students to understand abstract science concepts through films.
- Over **1700** 3-minute films
- **Interactive quizzes** for each topic
- Thousands of downloadable images, diagrams, and other digital materials
- **Bilingual captioning**
- Tracking learners' progress through 'MyTwig'

KLA

• Science

Key Stage

• 3 - 4

Support Platform



Films and learning materials



- Adaptation and Evolution
- Animal Kingdom
- Being Human
- Cells and DNA
- Ecosystems
- Healthy Living
- Human Body
- Plants



- Atoms and Bonding
- Chemical Industries
- Periodic Table
- Reactions



- Earth's Resources
- Geology
- Human Impacts
- Weather



- Biology
- Chemistry
- Physics



- A Changing World
- Orientation and Settlements



- Accuracy and Proof
- Algebra
- History of Maths
- Measurement
- Number
- Shape
- Space
- Statistics and Probability



- Electricity and Circuits
- Energy and Radioactivity
- Forces
- Our Solar System
- Universe
- Waves



English Language



EnglishCentral

- over **10,000 videos** lessons and 50 video-based courses are available, each lesson with well-defined **learning goal, topic, difficulty level and feature words**
- **Speech recognition system** analyses and gives feedback on learners' pronunciation accuracy and fluency
- **Other features: Slow mode, Definition of every word in a video, Phonetics alphabet**

KLA

•English

Key Stage

•1 - 4

Support Platform



The screenshot shows a video player interface. The video title is "The Great American Debt" and the subtitle is "Learn why the U.S. borrows money and become familiar with some words used in government and finance." The video player has a play button in the center and a progress bar at the bottom. To the right of the video player, there are three main interactive options: "Watch the video", "Learn the words", and "Speak the lines". Below these options, there are buttons for "Vocab Quiz" and "Lesson Plan".

The screenshot shows a grid of video thumbnails categorized by Business, Media, Social, and Travel. Each category has a "See All >" link. The Business category includes "Business Verbs", "Softbank's Eccentric Dealmaker", "Zara's Fast Fashion", and "More Robots, Fewer Jobs". The Media category includes "A Song from a Mother's Heart", "Miss Universe 2018 on Life's Important Lesson", "Are You Special?", and "Planet 51". The Social category includes "Valentine's Day with Hershey's", "My Dad, My Superman", "Celebrate Father's Day", and "Months & Holidays". The Travel category includes "Travel".



Cross-KLAs



KLA

•Humanities

Key Stage

•1 - 4

Support Platform



- Over **1,200 Packs** with diverse **multimedia resources** such as: Articles, Images, Videos, Primary Sources and Websites
- Organised and **customisable resources**
- **Differentiated levels** of contents
- Build critical-thinking skills and enhance student literacy skills

The screenshot shows the Britannica LAUNCHPACKS website. At the top, it says '250 Britannica LAUNCHPACKS™'. The main header for the selected pack is 'Ancient Egypt: Government and Society' for 'YEARS 9-12'. Below the header, there are navigation options like 'LaunchPack', 'Customise', and 'Favourite'. The main content area displays a 'LaunchPack' card with a 'You've got a class? We've got your Pack!' message. Below this, there are four smaller pack cards: 'Aboriginal Peoples Connection to Country' (YEARS 3-5), 'Ancient Egypt: Government and Society' (YEARS 9-12), 'Family Stories' (FOUNDATION - YEAR 2), and 'Landforms and Landscapes' (YEARS 6-8). Each card lists its contents, such as '3 Articles', '2 Images', '1 Video', and '3 Websites' for the Aboriginal Peoples pack.



- 4 million royalty-free, rights cleared multimedia clips and 8000 audio files
- Intuitive video editing makes video production simple and accessible for all ages and ability levels.
- Teachers can search, customise and assign video projects by curriculum, subject or year level.

KLA
•All

Key Stage
•1 - 4

Support Platform
 Web



Subscription Order Demo - APAC

Ready-to-go templates for you

civics



assign as project

Assign to *

select group

User full name (email)

john@example.net, jane@example.net, ...

Project Title

the hydrosphere

Start Date

2020-09-06

Instruction *



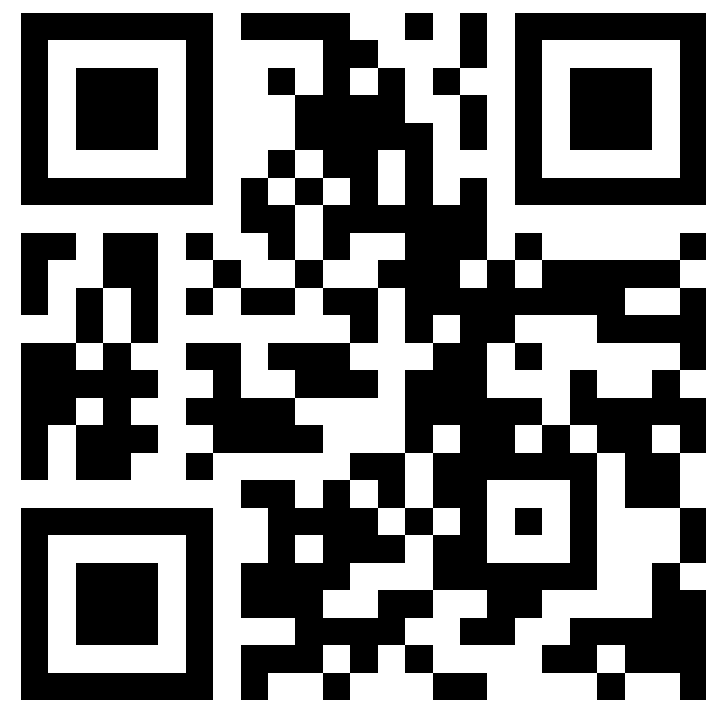


Apply for eREAP

eREAP Website



Online form



<https://www.hkedcity.net/ereap/>

專業發展課程



	中文科	英文科	數理科	從閱讀中學習
網上研討會 (經驗分享篇)	【小學場】10月6日14:00 講者：大埔舊墟公立學校 關倩芬副校長；馬鞍山靈糧小學 羅曉平老師	【小學場】10月7日14:00 講者：馬頭涌官立小學 (紅磡灣) 鄭美玲副校長；馬鞍山靈糧小學 楊子德老師	【小學場】10月8日14:00 講者：聖文德天主教小學 陶國耀老師；馬鞍山靈糧小學 袁穗華老師	「別壞了孩子語文學習的胃口」童心悅讀課程網上分享會 • 10月20日14:30 • 講者：五邑鄒振猷學校 鄭麗娟副校長
	【中學場】10月6日16:00 講者：香港聖公會何明華會督中學 楊小鳴老師、曾雅婷老師；香港管理專業協會李國寶中學 朱蓓妮老師	【中學場】10月7日16:00 講者：賽馬會萬鈞毅智書院 梁貝茵助理校長；英華書院 張子茵老師	【中學場】10月8日16:00 講者：東華三院李潤田紀念中學 陳浩文老師；可立中學 (嗇色園主辦) 歐潤南老師；新界喇沙中學 蔡仁欽老師	「從閱讀動機到能力：以多元策略促進學生閱讀投入」網上研討會 • 10月29日14:30 • 講者：香港大學教育學院 羅嘉怡博士；路德會西門英才中學 吳一敏助理校長；瑪利諾神父教會學校 (小學部) 陳錦華老師
網上工作坊 (實踐篇)	10月22日15:00、10月22日16:30、10月23日15:00、10月23日16:30	10月27日15:00、10月27日16:30、10月28日15:00、10月28日16:30	10月21日15:00、10月21日16:30、10月30日14:30、10月30日16:30	

- 一連20場以學科為本的網上課程
- 介紹教城多元網上資源和平台服務，包括STAR、網上試題學習平台、VLE、e悅讀學校計劃、香港閱讀城等
- 「經驗分享篇」：由教師分享運用創新教育科技推展高效學教評的心得
- 「實踐篇」：由教城代表帶領參加者體驗各個平台，以掌握實際操作和應用技巧

專業發展課程



立即報名參加

創新教師獎

目的

- 表揚能夠善用科技、配合教育理論及創新教學法、成功實踐創新教育、提升學教評效能的教師
- 凝聚致力推動創新教育的教師，教育當下，立足未來
- 促進教育界的創新發展及專業交流，建立共享文化

對象

- 所有香港小學、中學和特殊學校教師
- 參加者須於提供正規課程的本地學校任教

報名及提交作品

- 即日起至**2020年10月30日（五）**
- 參加者需按「**創新學教評**」、「**照顧不同學習需要**」、「**可延續及擴展**」、「**對專業社群之貢獻**」四大評審準則提交相關作品

組別及獎項

- 小學組、中學組（特殊學校將根據其主要學習階段劃分至中 / 小學組）
- 每組各設5名得獎者；頒獎禮將在「學與教博覽2020」舉行





FEEDBACK

網上
問卷



查詢

- 熱線: +852 2624 1000
星期一至星期六
上午8時至下午10時
*公眾假期除外
- 電郵: info@hkedcity.net
- 網站: www.hkedcity.net



*Thank
You*