善用創新科技．邁向教育新時代

Be Future-ready

香港教育城
發展部主管 洪婉玲

21/11/2020

香港特別行政區政府全資擁有公司

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EdCity 20th Anniversary

教育當下・立足未來

Actualising Future Ready Education

香港教育城
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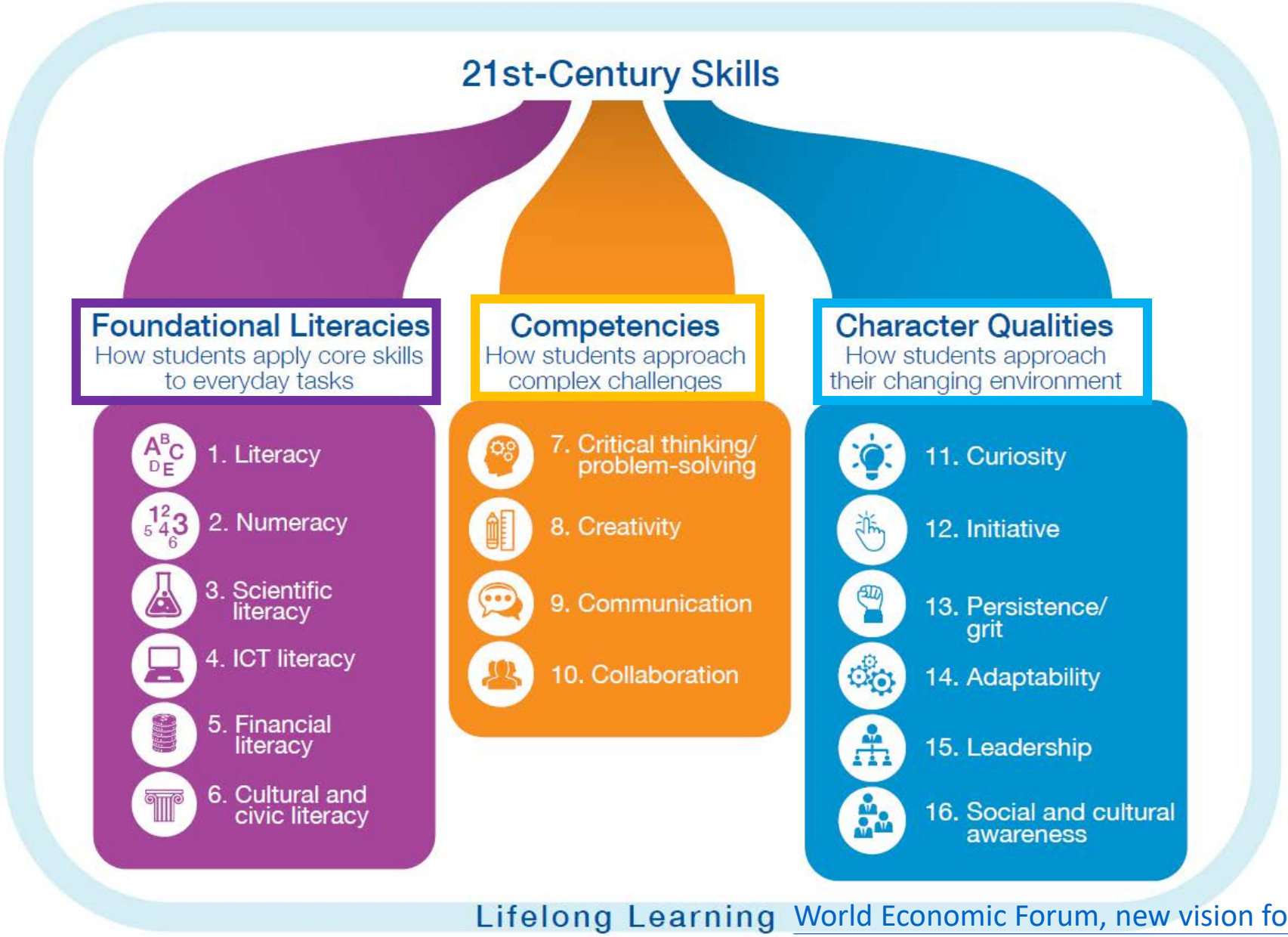
21世紀的學生學習

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



World Economic Forum, new vision for education (2015)

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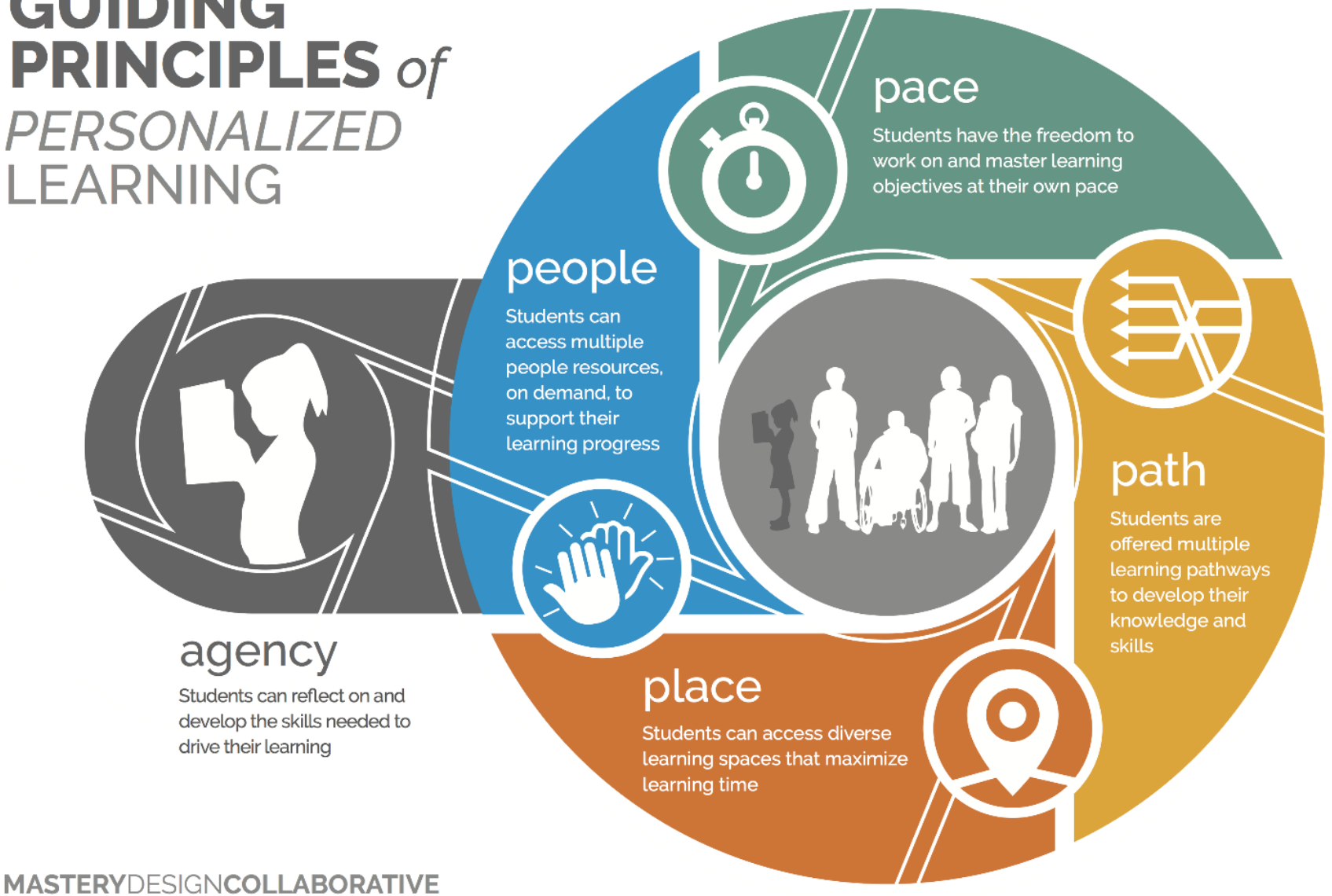
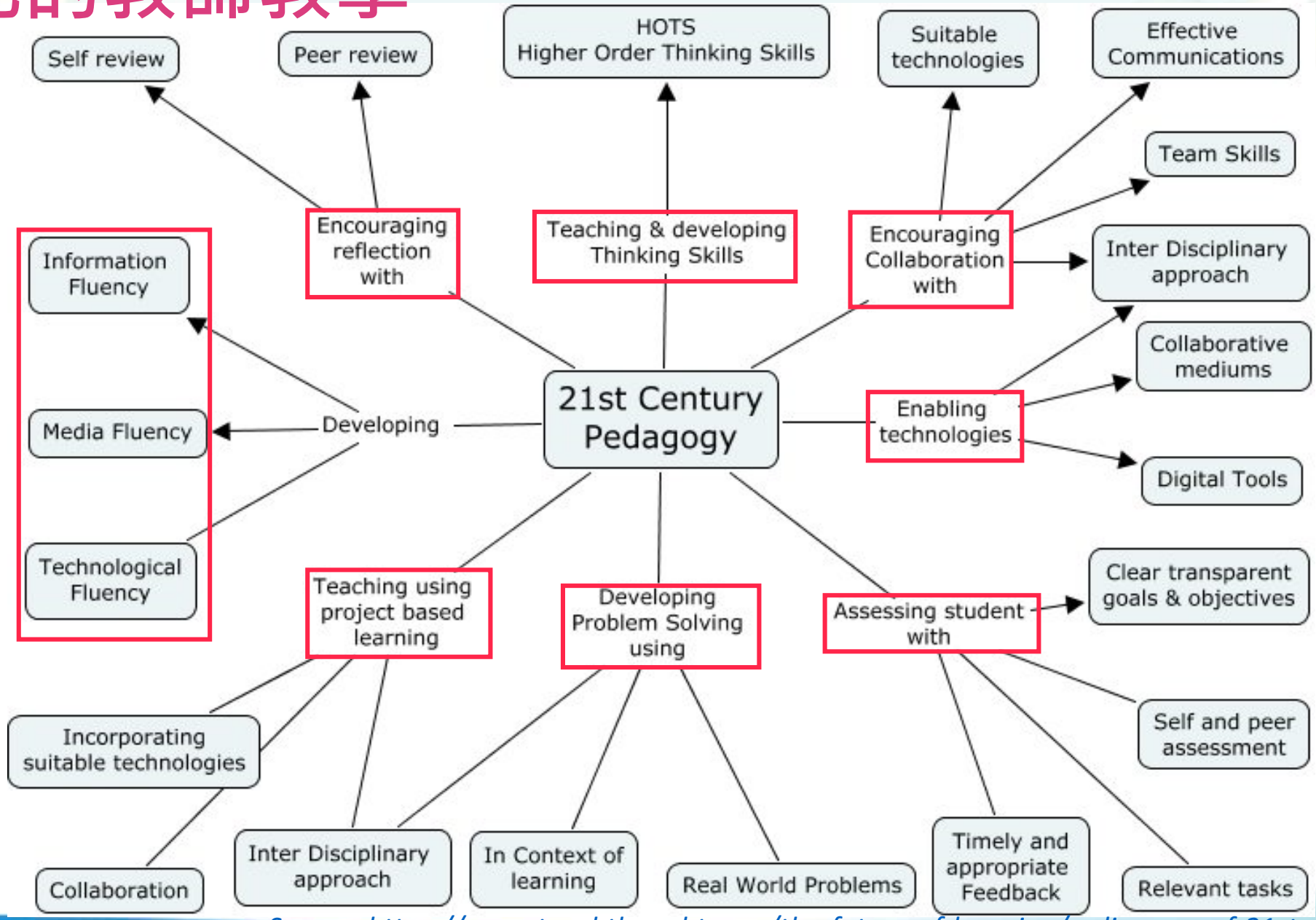
達致個人化學習



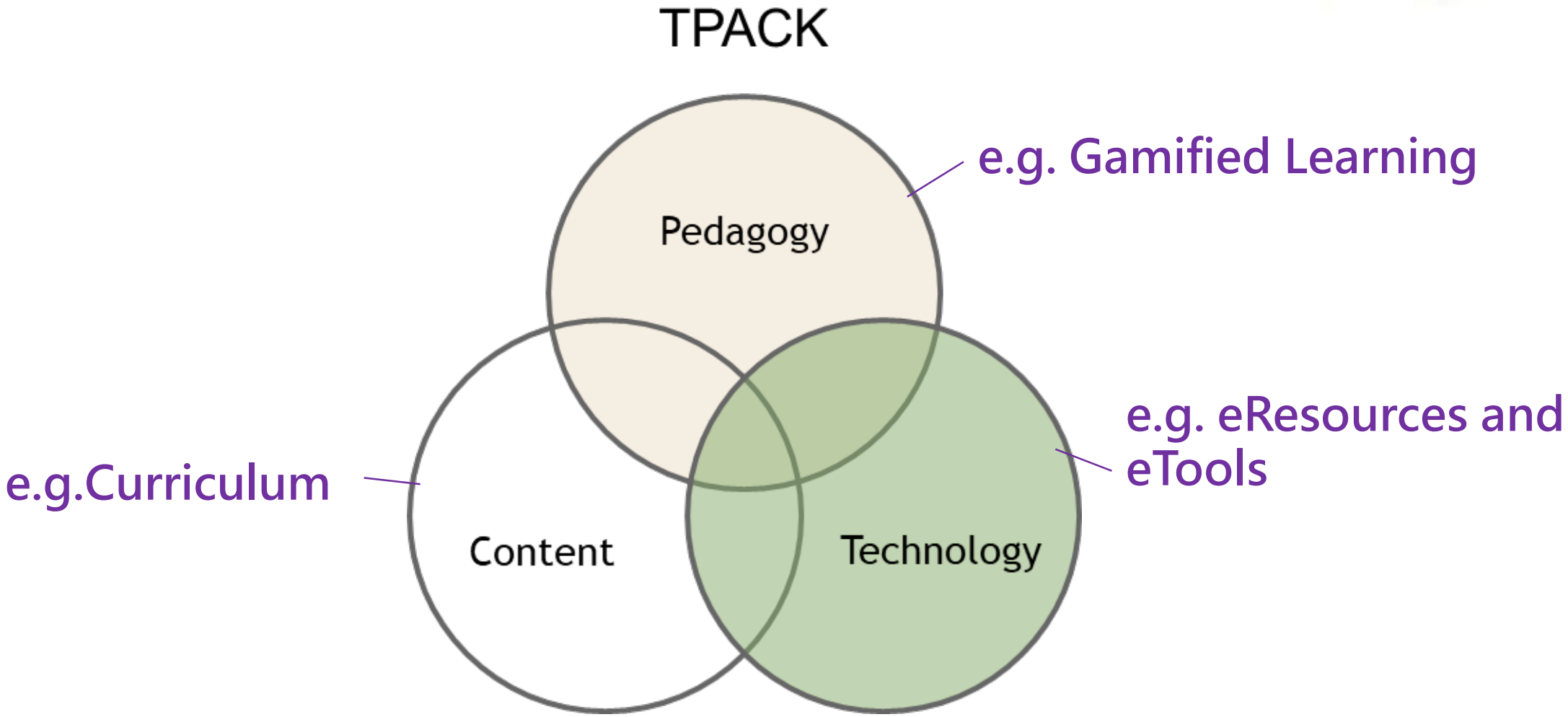
https://www.edsurge.com/news/2016-09-23-how-mastery-design-collaborative-helps-schools-redesign-their-models-to-personalize-learning

21世紀的教師教學



Source: https://www.teachthought.com/the-future-of-learning/a-diagram-of-21st-century-pedagogy/

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



"Technological Pedagogical Content Knowledge: A Framework for Teacher Knowledge." Punya Mishra and Matthew J. Koehler 2006.

教城服務 HKEdCity Services

電子書

教城書櫃 EdBOOKShelf

e·悅讀 學校計劃

STAR

網上試題學習平台 Online Question Bank

電子評估

eREAP

EnglishCentral

Learnlex

MATHSPACE

esri China HONG KONG

lumielabs

Twig

DYSTOPIA

codemonkey

LaunchPacks SCIENCE

LaunchPacks HASS

seppo

MIGHTIFIER

校本服務 School-based

Small 小校園 campus.net

十萬科學

暑期數理常識挑戰計劃

通識達人

Summer English

TV news

香港閱讀城

閱讀挑戰計劃

閱讀約章

創作天地 eWorks

中文狀元挑戰計劃

學生服務 Student-based

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Map in Learning

www.hkedcity.net

Map in Learning (MiL) Programme

- Organised by **Esri China (HK)** and **Hong Kong Education City** (HKEdCity) with the support from the **Education Bureau** (EDB)

- Provide **'ArcGIS Online'** to all primary and secondary schools in Hong Kong and Macau **for free**

- Aim at enabling students to develop the **life-long learning capabilities** and **problem solving skills** that are needed in our ever-changing society

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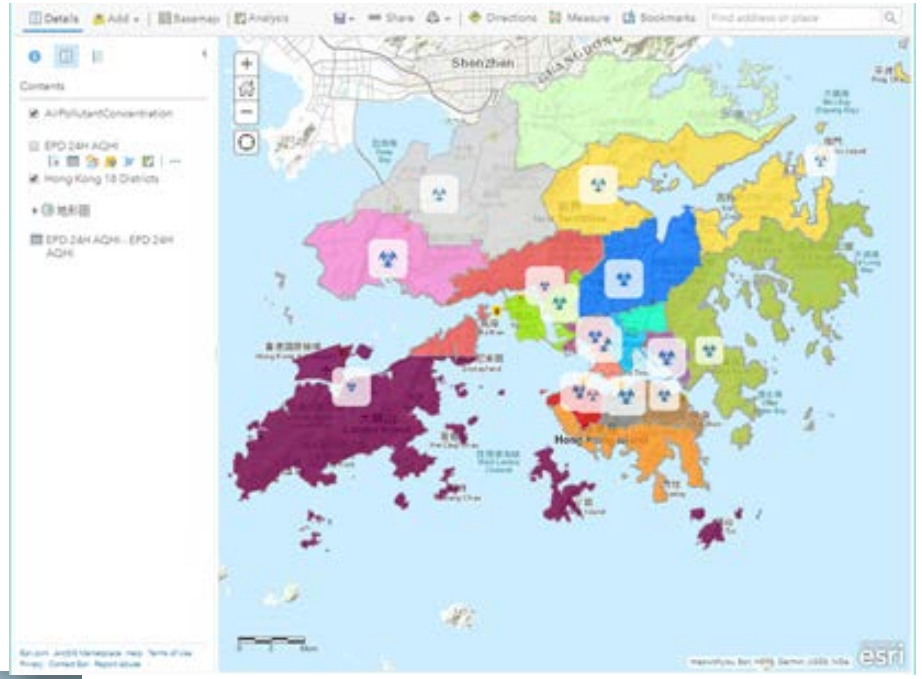
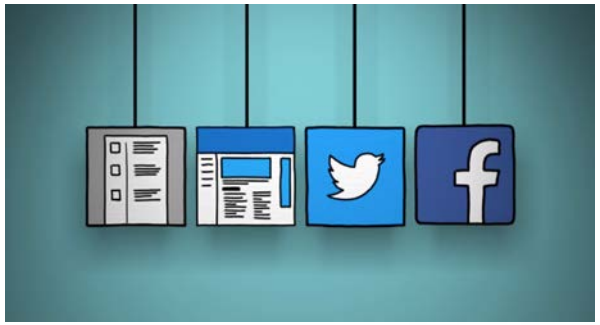
ArcGIS Online

KLA	Key Stage	Support Platform
•All	•2 - 3	Web

- 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.





「Map in Learning」Programme

1. Kumamoto Earthquake affected population
http://arcg.is/1Nl1n8d

2. The before and after of Kumamoto Earthquake
http://arcg.is/1Sk9WNw

Use Cases : Inter-school Cross-curricular Project Competition on Climate Change

How “Walled Building” causes microclimate changes in Hong Kong, submitted by Wah Yan College, Kowloon

Science

Technology

Engineering

Mathematics

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How ‘Walled Building’ causes microclimate changes in Hong Kong, submitted by Wah Yan College, Kowloon

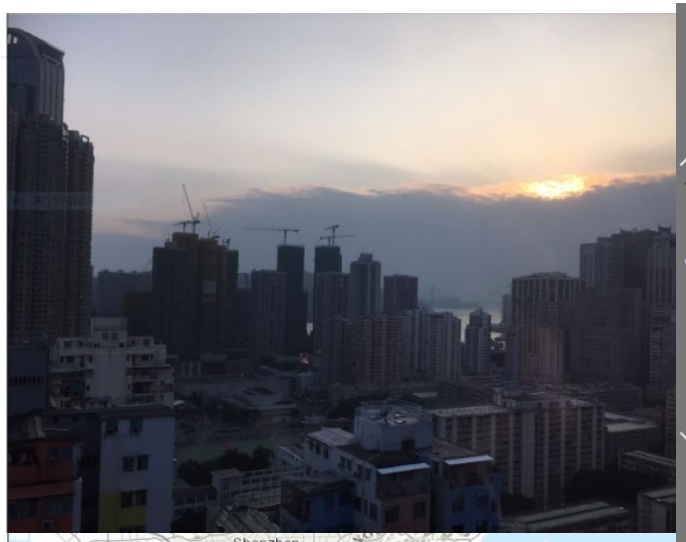
https://wyk.maps.arcgis.com/apps/MapJournal/index.html?appid=b0603756728943 6eb098a473b084ee6c#

屏風樓如何導致香港微氣候變化

香港雖為沿海城市，但山多平地少，而適合用作住宅的土地少之又少。有樓宇發展商為了讓購買者有更佳的景色,令單位更為保值,於是在海旁建立一整排高聳入雲的樓宇。由於一排排的樓宇像屏風一樣擋掉由海吹入內陸的風，所以我們稱之為「屏風樓」。

於今次的報告內，我們將會跟大家討論一下香港「獨有」的屏風樓及為大家展出它們如何影響氣候變化。

圖片: 荃灣西新發展區屏風樓群



屏風樓如何導致香港微氣候變化

屏風樓例子

經過我們在地圖上的分析後，屏風樓多數出現在地價較高的地方，並通常出現在新市鎮。例如市中心區域，港鐵站上蓋，或是海邊。這樣我們便推論出屏風樓主要出現的原因是因為不同的發展商想「賺到盡」，令單位價值更高,銷情更佳。而且政府缺乏監管,令屏風樓像雨後春筍般出現。

地圖：根據環保觸覺對屏風樓的定義而評為「屏風樓」的屋苑

分析映灣園

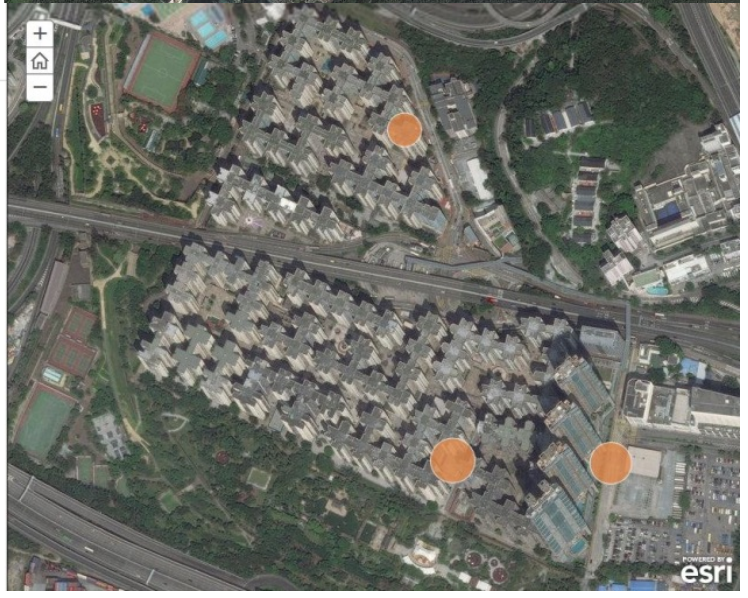
項目位於海邊
項目位於港鐵站上蓋
發展項目內樓與樓之間沒有足夠距離
項目之內的樓宇佈局是接近「一」字排開
項目內各樓宇的平均高度超過35層

分析環宇海灣

發展項目內樓宇之間沒有足夠距離
項目之內的樓與樓「一」字排開
項目內各樓宇的平均高度超過35層
項目附近有比較低矮的樓宇

屏風樓對溫度的影響

我們分別於荃灣和美孚量度了不同位置的溫度，發現在屏風樓前後的溫度差異甚為明顯,屏風樓前後的風速亦有分別，屏風樓的確促速了熱島效應。



屏風樓對該區環境的影響

屏風樓對香港環境的負面影響已逐步浮現，它們不但阻擋了其他樓宇的通風、採光和景觀，更造成熱島效應，密集的建築物會阻擋光線，受到日照的空間會縮減。

狹窄的街道加上兩旁的屏風樓群，令污染物被困而不能被吹散，加劇了空氣污染。市民如果吸收大量的懸浮粒子有可能會患上呼吸系統毛病及增加患上心血管疾病的機會。嚴重者更會導致哮喘、肺癌。所以屏風樓所造成的問題並非表面看起來那麼簡單，除了影響市民生活之外，更會增加市民患病的機會。

此外，屏風樓也可能引致鄰近較矮樓宇接收的電視信號較差。

例如右邊圖片中的九龍站自成一角的 Union Square 高密度

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eResources Adoption Programme (eREAP)

eREAP Features

Application

Free trial

Bulk Purchase

EdCity Support

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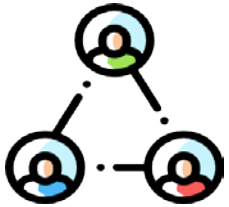
Support from HKEdCity

Website

Account provision

Training workshops



Community building

School cases

Newsletters

Student schemes

Long-term adoption support

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Icons from www.flaticon.com

eResources Adoption Programme (eREAP)

- Covers different subjects in primary and secondary schools

Languages

EnglishCentral

Learning Tools

seppo

esri China HONG KONG

MIGHTIFIER

Multiple subjects

DYSTOPIA

CODEMONKEY

LAUNCHPACKS HASS

lumielabs

Maths & Science

Learnlex

LAUNCHPACKS SCIENCE

MATHSPACE

Twig

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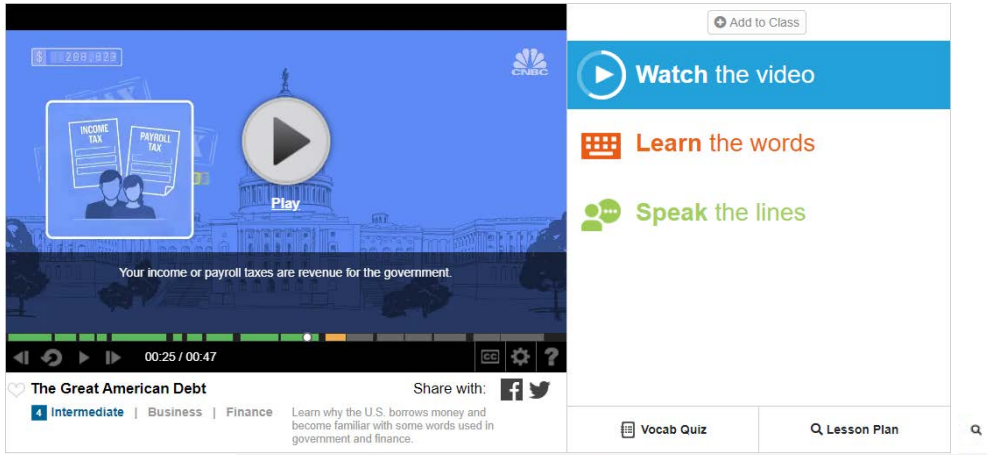
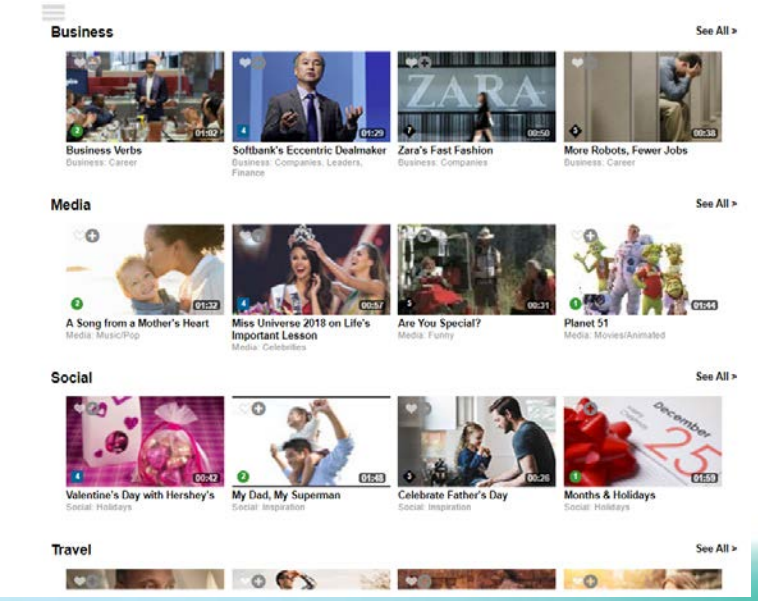
Languages

EnglishCentral

KLA	Key Stage	Support Platform
•English	•1 - 4	Download on the App Store · GET IT ON Google Play · Web

- 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





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Interdisciplinary Learning

NEW

KLA	Key Stage	Support Platform
•All	• 1 - 3	Web

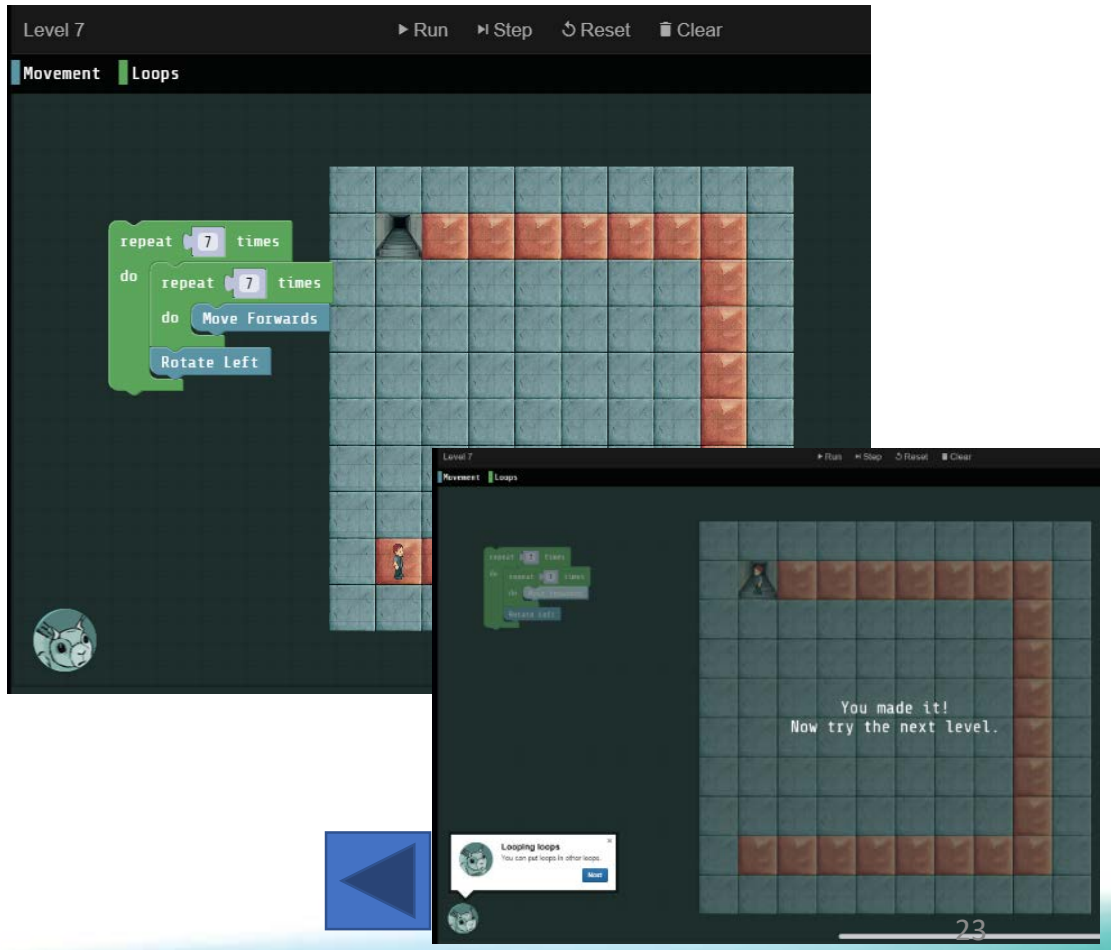
- Game-based online coding platform
- Teacher dashboard for teachers to monitor students' performance and convenient for scoring
- Flexible lesson plan for each coding courses, include both online and offline classroom activities

DYSTOPIA 2153

A project by TEACH Magazine

KLA	Key Stage	Support Platform
•English •ICT •Cross KLA	•2 - 3	Web

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

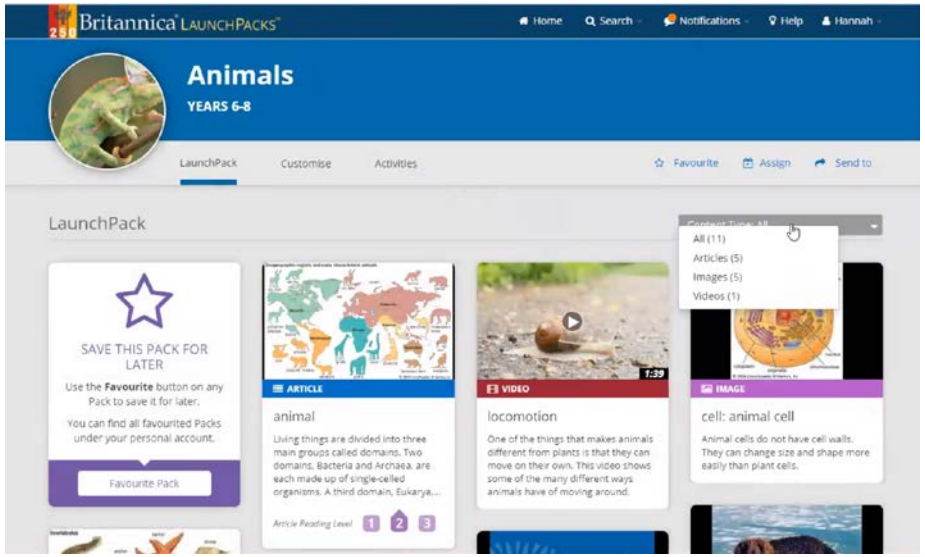


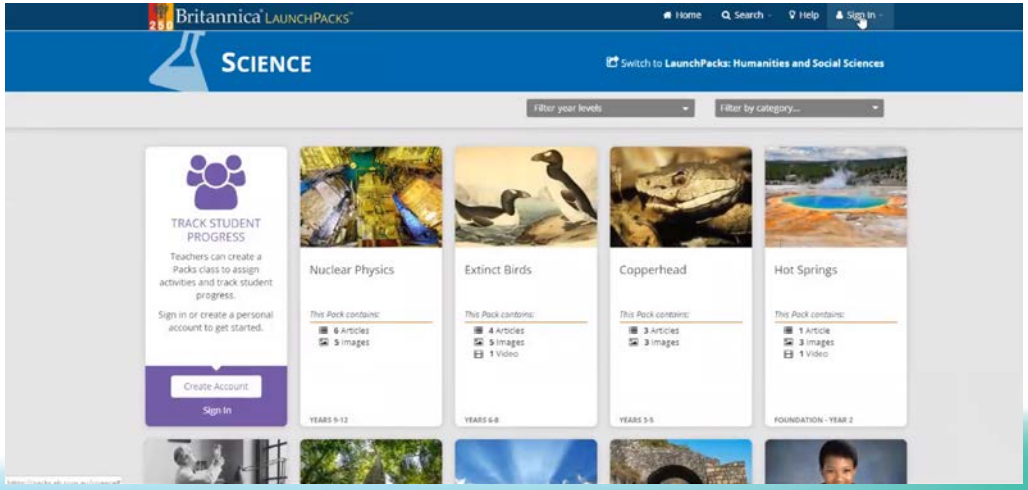
Maths & Science

LAUNCHPACKS SCIENCE

KLA	Key Stage	Support Platform
•Science	•1 - 4	Web

- 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





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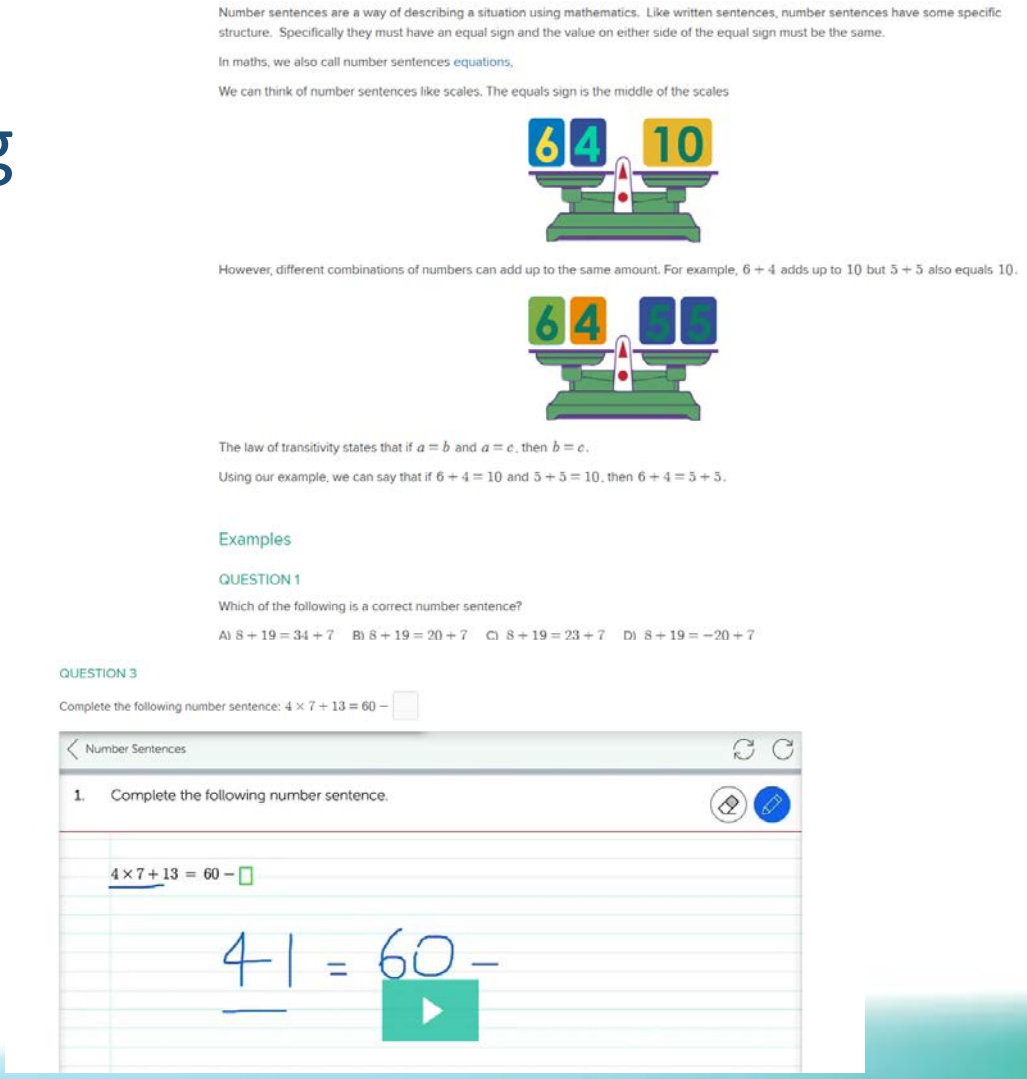
MATHSPACE

KLA	Key Stage	Support Platform
•Mathematics	• 2 - 4	Available on the App Store · Web · GET IT ON Google play · Get it from Microsoft

- 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.



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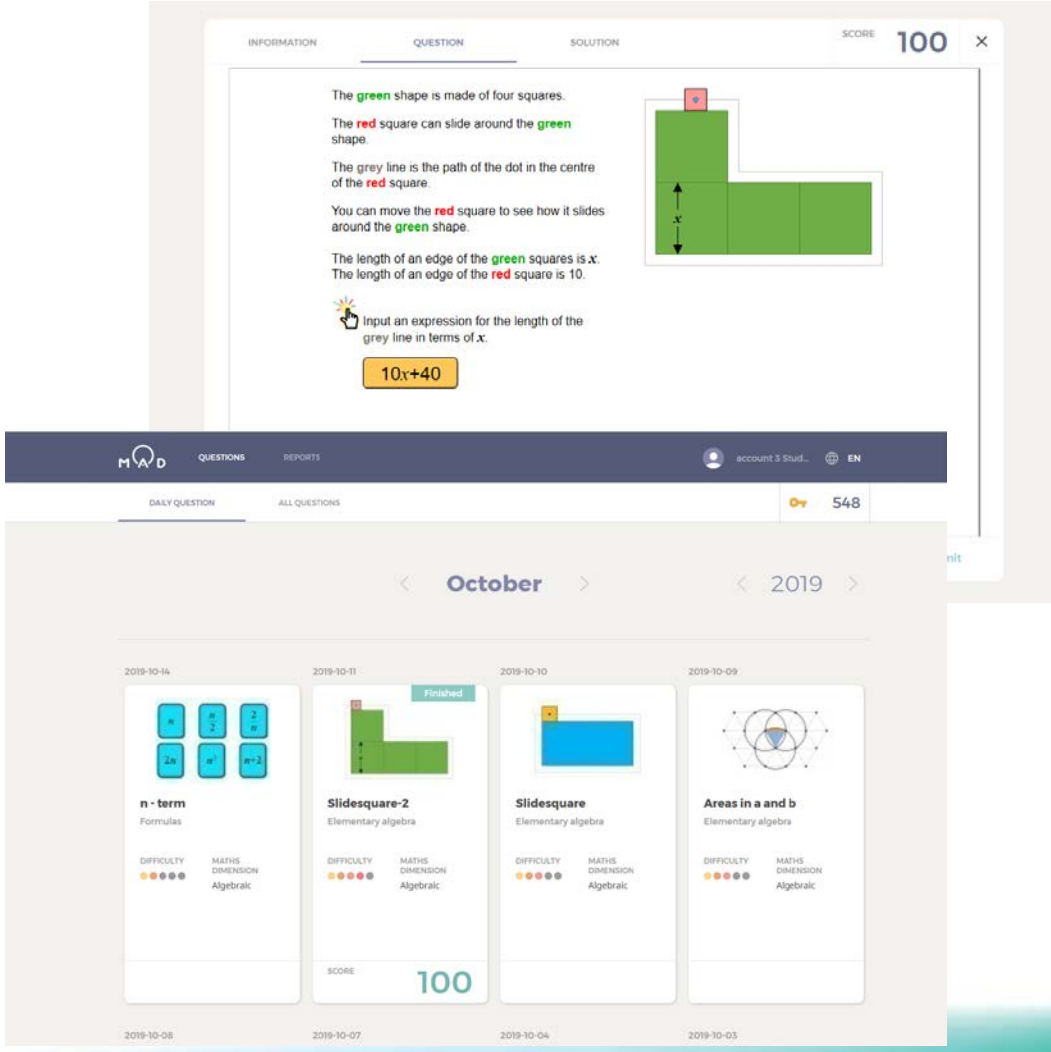
Learnlex™

KLA	Key Stage	Support Platform
•Mathematics	•1 - 3	Web

- 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



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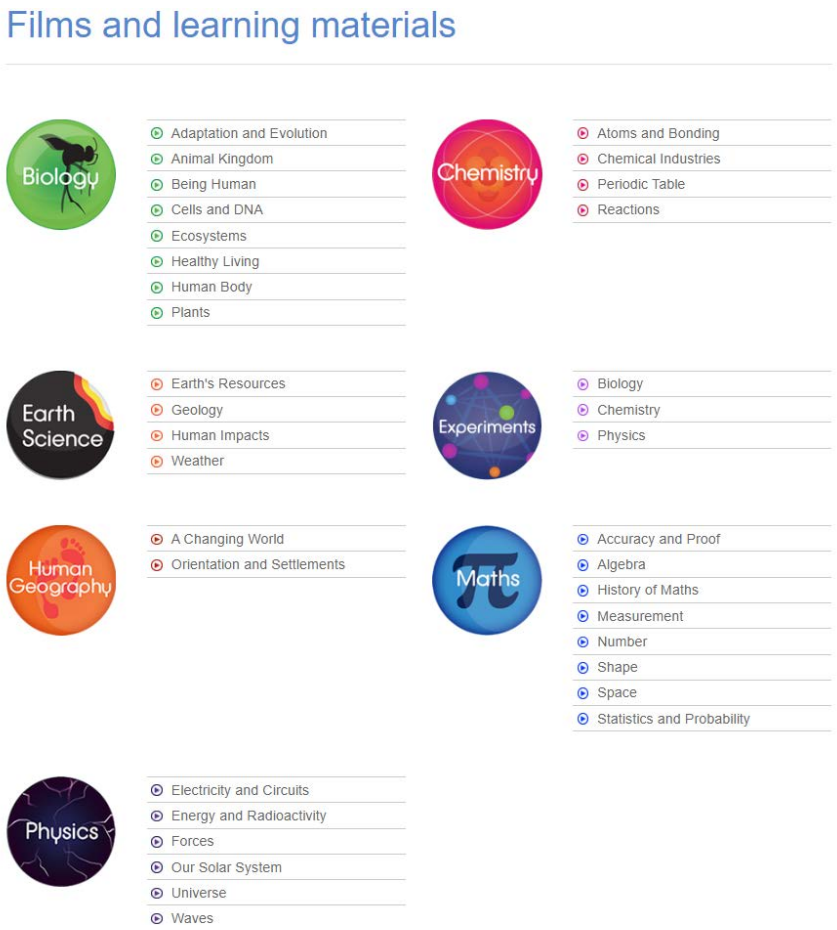
KLA	Key Stage	Support Platform
•Science	•3 - 4	Web

- 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'

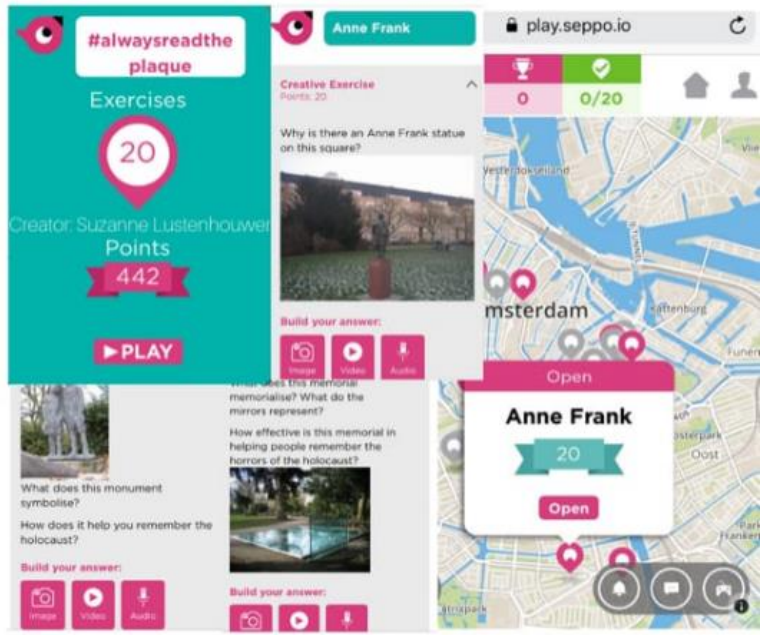


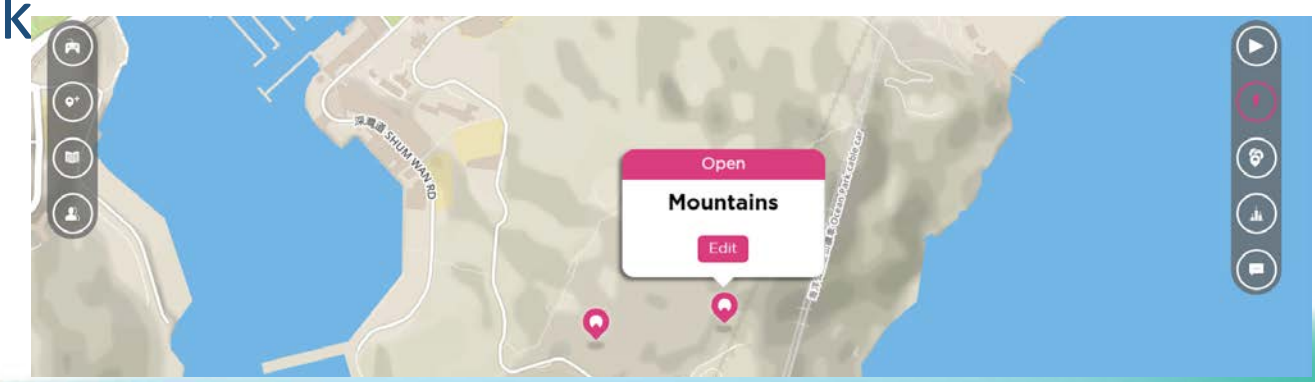
Learning Tools

seppo

KLA	Key Stage	Support Platform
•All	•1 - 4	Web

- 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





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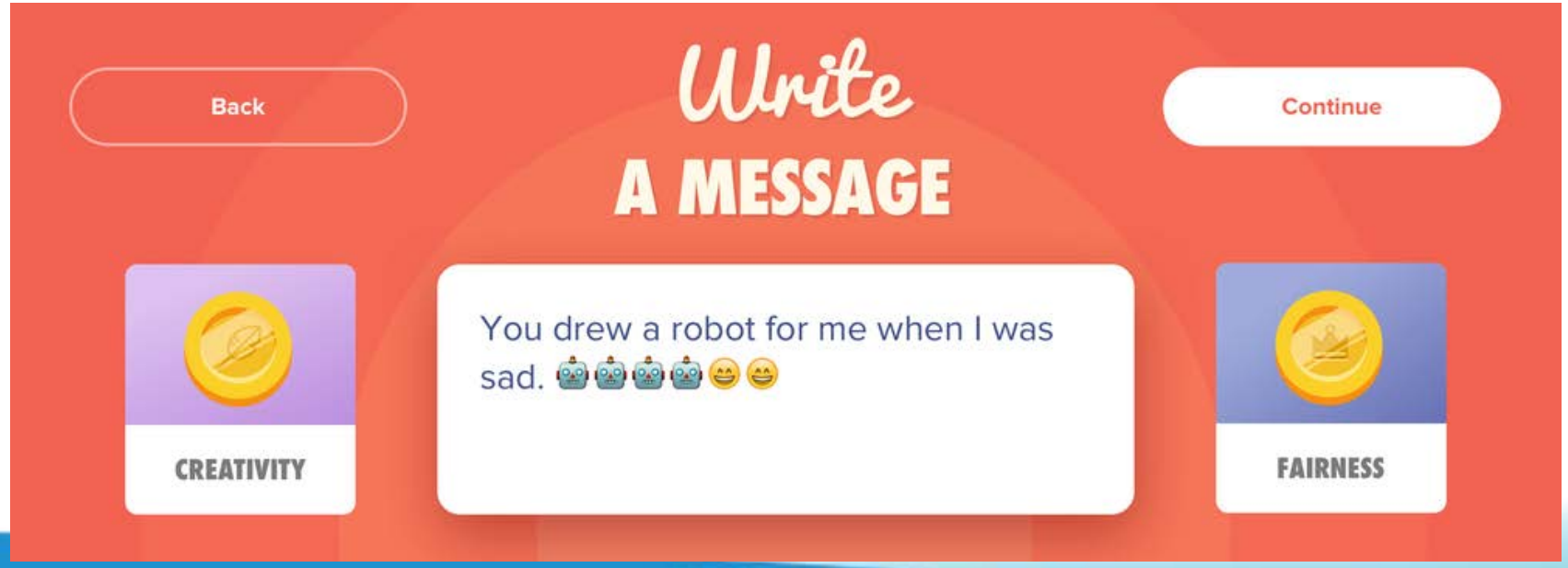
KLA	Key Stage	Support Platform
• All	• 1 - 2	Web

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



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