

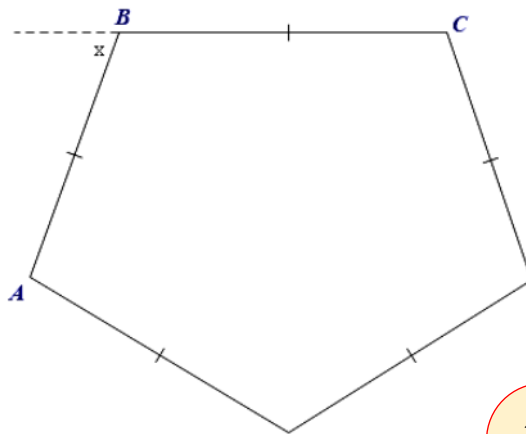
eREAP – 促進學生自主學習（教學建議）

教師們為了促進學生自主學習，時常煩惱如何提供自學教材給學生。部份教師會預先錄製大量的教學短片，介紹基本概念及提供解題示範。教師可使用 Mathspace 平台提供的影片，同樣能省時有效地實踐「翻轉教室」(Flipped Classroom)。

一. 習作可設定影片提示

Mathspace 平台提供三種不同的練習模式：Adaptive Task、Custom Task、Fast-track task，平台中大部分題目均設有提示 (Hint) 或教學影片 (Video)，教師可善用這些功能去為學生製作不同的自學教材。

5. Given that the shape in the figure is a regular pentagon, find the value of x



This step is correct, but you need to show some more working first.

[▶ Watch video](#)

...

$$x = 180 - 108$$

當學生回答問題時過於簡略或遺漏了某些步驟，平台會提供合適的提示或教學影片，引導學生寫出正確的步驟

Video

Hint 1

Submit

學生可按 **Video** 觀看教學短片或按 **Hint** 獲得步驟或答案的提示

Create Task

Task details

Task type

- Adaptive - Mathspace chooses questions (i)
- Custom - Pick the questions (i)
- Fast-track - Adaptive assessment (i)

Assign to (i)

Start Date (i)

Due Date

Expiry Date (i) days after the due date

Question variation

- Numbers vary for each student (i)
- Same for every student (i)

Advanced


- Allow students to use hints and watch video demonstrations

如教師為學生製作 Custom Task，並希望讓學生利用提示及教學影片進行自學，於製作練習時緊記別選此部分

二. 學生可自由探索課題


Mathspace 平台鼓勵學生自主學習，當學生選定了課題後，可因應個人的學習需要選擇不同的功能。

Search for a subtopic

-  Sequences
-  Linear Equations I
-  Linear Equations II


Geometry ▶▶ Fast track

Interior and Exterior Angles of Polygons




Scorecard

See your previous work in this Subtopic




Question Set

See all the questions in this Subtopic



Lesson

Read our lesson for this Subtopic



Practice

Practice and master this Subtopic

查看你在這課題之前已完成的題目

查看這課題的所有題目

閱讀這課題的教學內容

練習及掌握這課題

三. 共同制訂學習目標

教師透過 Mathspace 平台可與學生共同制訂學習目標，讓學生按個人需要調整學習進度；透過師生共同監控學習過程，並於 Mathspace 平台獲得適時的回饋，從而促進學生的自主學習。

建立三種不同練習模式的方法可參考 [用戶手冊](#) 中的教學。

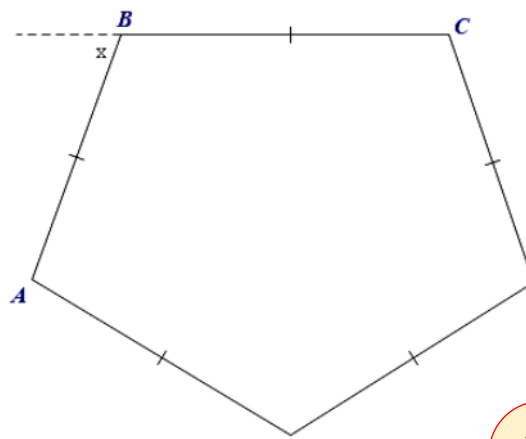
eREAP – Encouraging self-directed learning (Teaching Idea)

In order to encourage students' self-directed learning, teachers often worry about how to provide self-learning materials to students. Some teachers make a large number of teaching clips in advance to introduce basic concepts and provide demonstrations. Alternatively, using videos on Mathspace could also foster the implementation of the 'Flipped Classroom'.

A. Enabling hints in task settings

There are three different task types in the Mathspace platform, including Adaptive Task, Custom Task and Fast-track task. Most questions in the platform are provided with hints or video demonstrations.

5. Given that the shape in the figure is a regular pentagon, find the value of x



This step is correct, but you need to show some more working first.

[▶ Watch video](#)

...

$$x = 180 - 108$$

When the student answers the question too abridged or missing some steps, the platform will pop up a hint or a video demonstration to guide the student to write the correct steps.

Video

Hint 1

Submit

Students can press [Video](#) to watch video demonstrations or press [Hint](#) to get the hints of the steps or answers.

Create Task

Task details

Task type

- Adaptive - Mathspace chooses questions (i)
- Custom - Pick the questions (i)
- Fast-track - Adaptive assessment (i)

Assign to (i)

Start Date (i)

Due Date

Expiry Date (i) days after the due date

Question variation

- Numbers vary for each student (i)
- Same for every student (i)




Advanced Allow students to use hints and watch video demonstrations

If teachers want to create Custom Tasks and allow students to use hints and watch video demonstrations for self-directed learning, remember to tick this box when creating.

B. Allowing students to explore a topic openly

Mathspace encourages students' self-directed learning. When students have chosen the topic, they can use different functions in the platform base on their learning needs.


🔍

-  Sequences
-  Linear Equations I
-  Linear Equations II


Geometry

Fast track


Interior and Exterior Angles of Polygons




Scorecard
See your previous work in this Subtopic



Question Set
See all the questions in this Subtopic



Lesson
Read our lesson for this Subtopic



Practice
Practice and master this Subtopic

See your previous work in this subtopic

See all the questions in this subtopic

Read the lesson for this subtopic

Practice and master this subtopic

C. Setting learning goals together

Through the Mathspace platform, teachers can work together with students to set learning goals while students can adjust their learning progress according to their individual needs. Teachers and students can monitor the learning process and get timely feedback on the Mathspace platform in order to encourage students' self-directed learning.

To create the three types of tasks, you may refer to the teaching guides in the [User Guide](#) .