

eREAP – Mathspace：教學流程設計（教學建議）

課前、課堂及課後活動目的各異，教師設計教學活動往往費煞思量，而學生學習亦有差異，及時和適切的照顧便顯得格外重要。

以下的教學建議鼓勵教師活用 Mathspace 平台上的三種練習模式，配合不同設定，回應多面向的學與教需要。

每個學生所做的題目不會一式一樣，
學生必須自行溫習，掌握自主學習步伐

教學小貼士

1. 宜設較低的 Target mastery 分數，如 40 (已有先導知識) 或 25 (全新課題)。
2. 需留意當目標分數越高，學生即使已懂得那些先導知識，也需要更長時間達到目標。
3. 如欲教授之課題有多個先導知識課題，可設多個練習。
4. 參考學生表現，幫助設計課堂和發展教學策略。

課堂前

Adaptive Task
重溫先導知識/預習

課堂上

Custom Task
同步練習

在課堂上檢視同學的學習進度，即時得知學生的強弱項，提昇教學效率

教學小貼士

1. 選擇適當的開始時間(Start Date)，讓學生只能在課堂開始後才進入練習。
2. 選擇 Question variation 中的 Numbers vary for each student，使每位學生收到不同的題目。

讓學生挑戰自己，盡所學完成題目

教學小貼士

Adaptive Task

教師可設較高的 Target mastery 分數，如 60。當目標分數越高，學生需較長時間達到目標。而當分數越低，學生完成的題目可能各有不同，教師若需講解特定題目，可多加留意。

Custom Task

取消勾選 Allow students to use hints and watch video demonstrations，讓學生必須以自己能力完成評估。

Fast-track

同學需要在 24 小時內完成，並不能於往後三天重做。詳情可見參考資源 Fast-track Task 的[介紹](#)。

課堂後

Adaptive Task 練習/
Fast-track 總結練習/
Custom Task 同步評估

eREAP – Mathspace: Activity Planning (Teaching Ideas)

The purposes of pre-lesson, during-lesson and post-lesson activities vary, and there are usually learning diversities among students. That is why teachers need well-designed activities to address these needs in a timely and appropriate manner. The following recommendations encourage teachers to use the three practice modes on Mathspace flexibly, with thoughtful settings to meet the multi-faceted needs of learning and teaching.

Let students have their own pace and prepare their unique set of questions

Tips

1. Set a lower Target Mastery Score, such as 40 (with prior knowledge) or 25 (new topic).
2. When the score is higher, even if the students have already known the prior knowledge, it takes longer for them to reach the set score.
3. Set up multiple exercises if you want to teach a subject with multiple topics of prior knowledge.
4. Take students' performance as reference for better planning on lessons and teaching strategies.

Pre-lesson

Adaptive Task for
prior knowledge
revision/new
topic's preparation

During-lesson

Custom Task for
unified practice

Instant feedback on the strengths and weaknesses of the students, and achieve more efficient teaching

Tips

1. Choose an appropriate Start Date so that students can only enter the practice after the lesson begins.
2. Select 'Numbers vary for each student' in 'Question variation' so that each student receives a different question set.

Let students challenge themselves and complete the tasks with all they know

Tips

Adaptive Task

Set a higher Target Mastery Score, such as 60. Keep in mind that when the set score is lower, students may complete different questions, which may hinder the teacher from explaining the specific topic later.

Fast-track

Uncheck 'Allow students to use hints and watch video demonstrations', so students have to complete the exercise on their own.

Custom Task

Students need to complete the exercise within 24 hours and cannot redo within the next three days. See the [Fast-track introduction](#) for details.

Post-lesson

Adaptive Task for practice/
Fast-track for summative
practice/ Custom Task for
unified assessment