

12 June 2026

## **Education Bureau Circular No. 10/2026**

### **Fine-tuning of Primary and Secondary Mathematics Curricula - Enhancement of Elements on Mathematical Modelling**

[Note : This circular should be read by –

- (a) Supervisors/heads of all schools – for necessary action; and
- (b) Heads of all Sections – for information.]

#### **Summary**

The purpose of this circular is to announce the fine-tuning of the primary and secondary Mathematics curricula and related school briefings.

#### **Background**

2. In line with the national strategies of “invigorating the country through science and education” and “the integrated development of education, technology and talents,” as well as Hong Kong’s development of innovation and technology, the Education Bureau (EDB) continues to strengthen STEAM education in primary and secondary schools, and through various measures to enhance mathematics, science, and technology education. For mathematics education, in response to the direction stipulated in “The Chief Executive’s 2023 Policy Address” on strengthening STEAM education and enhancing students’ capability in the applications of Mathematics, EDB has been actively promoting mathematical modelling in primary and secondary Mathematics in recent years. Through measures such as large-scale teacher trainings, pilot schemes, and student activities<sup>1</sup>, the integration of modelling into the learning and teaching of

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<sup>1</sup> The measures include organising the “18-hour Enrichment Certificate Course on Mathematical Modelling for Mathematics Teachers in Secondary Schools” from 2023/24 to 2025/26 school years, of which all publicly funded secondary schools (including special schools) have arranged teachers to attend; the “Pilot

Mathematics is promoted in schools.

3. In order to foster the full implementation of mathematical modelling among primary and secondary schools, relevant curriculum fine-tuning is required to clearly set out the requirements on learning and teaching of mathematical modelling in different key stages and provide related guidelines for schools. As such, by the end of 2025, the Committee on Mathematics Education under the Curriculum Development Council established the “Ad Hoc Committee for Integrating Mathematical Modelling into Primary Mathematics Curriculum” and the “Ad Hoc Committee for Integrating Mathematical Modelling into Secondary Mathematics Curriculum” (AHCs), which comprise of expert scholars, principals and experienced teachers, to provide professional advice on the curriculum fine-tuning and the revision of relevant curriculum documents.

## **Details**

4. With reference to the curricula on mathematical modelling from various countries/regions, alongside recent experiences in promoting mathematical modelling in primary and secondary schools, the AHCs formulated recommendations on curriculum fine-tuning. These recommendations have been endorsed by the Curriculum Development Council. Under the proposed curriculum fine-tuning, schools should utilise the lesson time of the learning unit “Inquiry and Investigation” in the current primary and secondary Mathematics curricula to arrange mathematical modelling learning activities for students. Schools should make reference to the new guidelines in curriculum documents to arrange around 2 to 3 hours of mathematical modelling learning activities each school year<sup>2</sup> for students from Key Stage 2 to Key Stage 4. The revisions to the curriculum documents are as follows:

- (a) The descriptions of the learning unit “Inquiry and Investigation” in

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Scheme on Mathematical Modelling for Primary Schools” in 2023/24 and 2024/25 school years and the “18-hour Certificate Course on Mathematical Modelling for Primary Mathematics Teachers” in the 2025/26 school year; and the “Hong Kong-Shanghai Mathematical Modelling Competition for Secondary School Students” starting from 2025, etc.

<sup>2</sup> Schools may, depending on the learning of mathematical modelling among senior secondary students, either omit modelling activities for S6 students or arrange the activities of about 1 to 2 hours. Modelling activities for the Compulsory Part and Extended Part of senior secondary Mathematics can be combined.

*Mathematics Education Key Learning Area Curriculum Guide (Primary 1 - Secondary 6)* and *Mathematics Curriculum and Assessment Guide (Secondary 4 - 6)* will be enriched. The updates will illustrate that teachers should utilise the lesson time provided by this learning unit to arrange mathematical modelling learning activities to enhance students' ability to apply mathematics.

- (b) The remarks of the learning unit “Inquiry and Investigation” in *Supplement to Mathematics Education Key Learning Area Curriculum Guide* for secondary and primary schools and *Mathematics Curriculum and Assessment Guide (Secondary 4 - 6)* will specify the required lesson time for the mathematical modelling learning activities.
- (c) The notes of the learning unit “Inquiry and Investigation” in the *Explanatory Notes to Mathematics Curriculum* for upper primary, junior secondary, senior secondary (Compulsory Part) and senior secondary (Extended Part) will be enriched. The process of mathematical modelling that students should learn and the learning progress across key stages will be elucidated. Guidelines on the design of learning activities, the learning, teaching and assessment, and the use of artificial intelligence will also be provided for teachers' reference.

5. In addition to Mathematics lessons, schools can also make use of the lessons for project learning or cross-curricula learning, as well as the learning time after-school or during post-examination periods as complement, to conduct mathematical modelling learning activities. The learning activities on mathematical modelling should be regarded as STEAM learning activities of the Mathematics subject. The recommended curriculum fine-tuning does not involve any revisions to the mathematical topics in the primary and secondary Mathematics curricula, and therefore will not affect the use of existing textbooks, nor the assessments of Mathematics in the Hong Kong Diploma of Secondary Education Examination and other territory-wide assessments (such as the Pre-Secondary One Hong Kong Attainment Test and the Territory-wide System Assessment).

6. The curriculum fine-tuning on mathematical modelling is planned to be implemented first in all year levels of Key Stage 3 starting from the 2027/28 school year, followed by the implementation in Key Stage 2 and Key Stage 4 in the 2028/29 school year. Schools may also pilot mathematical modelling learning activities before the aforementioned school years, such as piloting in junior secondary year levels in the 2026/27 school year, and in upper primary/senior secondary year levels in 2026/27 or 2027/28 school years.

### **Teacher Training and Curriculum Resources**

7. EDB will continue to provide professional development programmes on mathematical modelling, including organising mathematical modelling certificate courses and other teacher training programme for primary and secondary Mathematics teachers, to enhance their professional capacity in implementing mathematical modelling. EDB will also establish learning circle for mathematical modelling and related sharing sessions to build a professional learning community. EDB has also developed several sets of learning and teaching resource packages on mathematical modelling for schools' adoption. More examples of mathematical modelling learning activities will be uploaded by batches for schools' reference in the 2026/27 school year. In addition, EDB will continue to organise relevant student activities, such as the "Mathematical Modelling Competition for Secondary Students" and "Hong Kong-Shanghai Mathematical Modelling Competition for Secondary Students", to foster the atmosphere of learning mathematical modelling.

### **Briefing Sessions and Collection of Views**

8. In order to allow schools' better understanding of the curriculum fine-tuning on mathematical modelling in Mathematics and to gather teachers' views, EDB will organise "Online Briefing Seminar on the Fine-tuning of Mathematics Curriculum regarding Mathematical Modelling" for primary and secondary schools on 22 June 2026 (Monday) and 8 July 2026 (Wednesday) respectively (Course ID: ITED20260311 for primary schools; ITED20260385 for secondary schools). Teachers may register through the EDB Training Calendar System.

9. The updates to the Mathematics curriculum documents (provisional draft)

in relation to the curriculum fine-tuning will be uploaded to the EDB website (<https://www.edb.gov.hk/en/curriculum-development/kla/ma/curr/index2.html>) after the aforementioned briefing sessions. If schools have any comments or suggestions regarding the curriculum fine-tuning on mathematical modelling, please send them to [math@edb.gov.hk](mailto:math@edb.gov.hk) by 25 September 2026, for the reference of the AHCs.

### **Enquiries**

10. For any enquiries, please contact Mr TSANG Yu-man (primary schools) (2153 7466) or Mr LEE Kin-sum (secondary schools) (2153 7456) of the Mathematics Education Section, Innovation Technology Education Division, Education Bureau.

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for Secretary for Education