

23 June 2025

Education Bureau Circular No. 13/2025

**“Science (Primary 1 – 6) Curriculum Guide”,
“Training Base for Primary Science Teachers” and Teacher Training Arrangements
for the 2025/26 School Year**

[Note: This circular should be read by-

- (a) Supervisors/Heads of all Government Schools, Aided Schools (including Special Schools), Caput Schools, Private Schools, and Schools under the Direct Subsidy Schemes – for action; and
- (b) Heads of Sections – for information.]

Summary

The purpose of this circular is to announce the “Science (Primary 1 – 6) Curriculum Guide” (2025) (“the Guide”) developed by the Curriculum Development Council (CDC), and to inform schools of the details regarding the “Training Base for Primary Science Teachers” and teacher training arrangements for the 2025/26 school year.

Background

2. To tie in with further stepping up of the promotion of STEAM education as advocated in the “Chief Executive’s 2023 Policy Address”, among others, the introduction of Primary Science was proposed to strengthen students’ scientific and creative thinking, with implementation scheduled to start from the 2025/26 school year. In November 2023, the Education Bureau (EDB) issued Circular No. 18/2023 to schools, announcing the “Science (Primary 1 – 6) Curriculum Framework” (Provisional Draft) and launching a consultation. The revised Curriculum Framework (Final Version) was submitted to the CDC in February 2024 and was received, with its official announcement made in March of the same year.


3. The “Ad Hoc Committee for the Development of the Science (Primary 1 – 6) Curriculum” under the Curriculum Development Council Committee on Science Education (CDCC(SE)), based on the curriculum rationale, curriculum structure, learning and teaching principles, and assessment principles outlined in the “Science (Primary 1 – 6) Curriculum Framework”, and taking reference from the schools’ experience in piloting the curriculum during the 2024/25 school year, developed the “Science (Primary 1 – 6) Curriculum Guide” (Provisional Draft) after thorough discussions. The draft was submitted to the CDCC(SE) in April 2025. The CDCC(SE) accepted the draft and recommended submission to the CDC. The CDC received the curriculum guide in June of the same

year and recommended schools to start implementing the curriculum in the 2025/26 school year.

Details

“Science (Primary 1 – 6) Curriculum Guide” (2025)

4. The Guide provides a detailed elaboration on curriculum rationale, curriculum structure, curriculum planning, learning and teaching, assessment, and learning and teaching resources for Primary Science, incorporating authentic school examples for reference by schools and teachers. The Guide has been uploaded to the Primary Science webpage of the Science Education Section, EDB (<https://www.edb.gov.hk/en/curriculum-development/kla/science-edu/primary-science.html>).

“Science (Primary 1 – 6) Curriculum Guide” (2025)	QR Code
<p data-bbox="549 902 616 931">Link</p> <p data-bbox="252 949 911 1032">https://www.edb.gov.hk/en/curriculum-development/kla/science-edu/primary-science.html</p>	

5. The Guide consists of six chapters, with the main contents outlined below:

Chapter	Main Content
Chapter 1 Introduction	<ul style="list-style-type: none">• Reasons for the introduction of Primary Science• Curriculum rationale (Explore with Curiosity, Learn through Applying, Innovate for Tomorrow) and aims
Chapter 2 Curriculum Framework	<ul style="list-style-type: none">• Components of the curriculum structure (four strands, comprising 15 themes) and the curriculum emphases• Learning objectives and suggestions on specific learning and teaching activities for the four strands
Chapter 3 Curriculum Planning, Implementation and Evaluation	<ul style="list-style-type: none">• Suggestions on the topic sequence and lesson time allocation• Elaboration on using unifying concepts/crosscutting concepts in science to guide students’ inquiries and thinking• Principles and examples for horizontal integration across strands• Principles and examples for vertical progression of scientific concepts

Chapter	Main Content
	<ul style="list-style-type: none"> • Key points for curriculum interface that are in line with students' cognitive development stages (interface with kindergarten education, interface between Key Stages 1 and 2, interface with junior secondary science curriculum) • Continuous curriculum refinement through the “Plan-Implement-Evaluation” cycle
Chapter 4 Learning and Teaching	<ul style="list-style-type: none"> • Different approaches to science learning and teaching explained using the ICAP framework (interactive learning, constructive learning, active learning, passive learning), and some specific examples • Diversified learning and teaching strategies illustrated with specific examples • The 5E instructional model (Engage, Explore, Explain, Elaborate, Evaluate) as reference for science lesson planning, with specific examples • Importance of interaction in science lessons (strengthening scientific reasoning by providing scaffolding, using effective question chain and feedback), with specific examples • Strategies for catering learner diversity
Chapter 5 Assessment	<ul style="list-style-type: none"> • Application of different assessment modes (Assessment of Learning, Assessment for Learning, Assessment as Learning) in science • Diversified assessment strategies, including formative and summative assessments, with specific examples • Principles for schools to formulate assessment policies for Primary Science (including the enhancement of assessment literacy), with specific examples • Principles for designing effective science assignments, with specific examples
Chapter 6 Learning and Teaching Resources	<ul style="list-style-type: none"> • Campus space planning for science inquiry activities, including the planning and layout of science room, the selection of teaching aids and equipment, and safety management-related matters • Effective utilisation of various learning and teaching resources, including textbooks, information technology (including generative artificial intelligence), resources developed by EDB, and community resources

Training Base for Primary Science Teachers

6. In line with the introduction of Primary Science in the 2025/26 school year, EDB has set up the “Training Base for Primary Science Teachers” in the last school year (2023/24 school year) and systematically organised a series of related teacher training programmes for in-service primary

teachers, including the “Certificate in Professional Training for Primary Science Teachers (30 hours)” programme and “Certificate in Professional Training on Primary Science Curriculum Leadership (15 hours)” programme, to enhance teachers’ confidence and capabilities to teach Primary Science, in preparing for the implementation of the Primary Science curriculum.

7. In the coming school year (2025/26 school year), the “Training Base for Primary Science Teachers” will be located at Wong Tai Sin Government Primary School (Address: 100 Ching Tak Street, Wong Tai Sin, Kowloon) and will continue to provide the above certificate programmes. EDB will continue to optimise the training courses to provide teachers with diversified and comprehensive professional training.

“Certificate in Professional Training for Primary Science Teachers (30 hours)” Programme

8. The “Certificate in Professional Training for Primary Science Teachers (30 hours)” programme comprises various course series. For details, please refer to the **list of designated courses for the “Certificate in Professional Training for Primary Science Teachers (30 hours)”** on the Primary Science webpage of EDB (<https://www.edb.gov.hk/en/curriculum-development/kla/science-edu/primary-science.html>). Some of the offered courses are listed below:

Compulsory courses (must complete at least 2 courses, a total of 12 hours)	
Professional Teacher Training Series for Introduction of Primary Science	<ul style="list-style-type: none"> • Seminar and Workshop (1): The Use of Scientific Models in Primary Science Lessons • Seminar and Workshop (2): Discovering Knowledge through Scientific Inquiry • Seminar and Workshop (3): Engineering Practice and Innovation • Seminar and Workshop (4): Diversified Science Assessment • Seminar and Workshop (5): Effective Questioning and Scientific Reasoning
Elective courses	
Professional Teacher Training Series for Primary Science Outdoor Learning	<ul style="list-style-type: none"> • Visit to Fung Yuen Nature and Culture Education Centre & Fung Yuen Butterfly Reserve • Visit to Hong Kong Wetland Park • Visit to Kadoorie Farm and Botanic Garden • Hong Kong Space Museum School Planetarium Show cum Exhibition Halls Visit • Astronomy Workshop • Visit to Astropark • Hong Kong Science Museum Science Workshop (1): Physical Science cum Exhibition Halls Visit

	<ul style="list-style-type: none"> Hong Kong Science Museum Science Workshop (2): Earth Science cum Exhibition Halls Visit
Knowledge Enrichment Series for Primary Science Teachers	<ul style="list-style-type: none"> Online Seminar (1): Life and Environment Online Seminar (2): Matter, Energy and Changes Online Seminar (3): Earth and Space Online Seminar (4): Science, Technology, Engineering and Society
Others	<ul style="list-style-type: none"> Effective Lesson Planning Strategies for Science Education at Primary Level Safety Issues and Risk Assessment in Primary Science Learning and Teaching

9. The certificate programme also features an exemption mechanism. For details, please refer to the certificate application form available on the Primary Science webpage of EDB.


“Certificate in Professional Training on Primary Science Curriculum Leadership (15 hours)” Programme

10. The above training programme is organised by EDB and tertiary institutions, targeting aspiring Primary Science subject panel heads or level coordinators, and aims at enhancing their capabilities in curriculum leadership and management. Its content covers curriculum leadership, curriculum interpretation, curriculum planning, safety guidelines, etc. Teachers are required to complete and obtain the “Certificate in Professional Training for Primary Science Teachers (30 hours)” before applying for the “Certificate in Professional Training on Primary Science Curriculum Leadership (15 hours)”. The above training certificate is of an incentivising nature and is not a requirement for serving as Primary Science subject panel heads or level coordinators.

11. The above courses will be subsequently uploaded to the Training Calendar System (TCS) of EDB (<https://tcs.edb.gov.hk>). Schools should encourage teachers to actively sign up for participation. Upon fulfilling the course requirements, teachers can download the certificate application form from the Primary Science webpage of EDB (<https://www.edb.gov.hk/en/curriculum-development/kla/science-edu/primary-science.html>) and follow the instructions to apply for the certificate. EDB will also continue to upload and update information related to professional training for primary science teachers on the Primary Science webpage. Please visit the above website for the latest information.

Briefing Session on Science (Primary 1 – 6) Curriculum Guide (2025)

12. EDB will organise a briefing session at Hall 3B-E of the Hong Kong Convention and Exhibition Centre on 2 July 2025 (Wednesday) to introduce the Guide, as well as details regarding the “Training Base for Primary Science Teachers” and related teacher training courses for the 2025/26 school year. Schools may apply the briefing session on Science (Primary 1 – 6) Curriculum Guide (2025) through the webpage of Learning & Teaching Expo 2025 (Website: <https://s.jemex.me/2tyQUuDHu>).

<p>Briefing Session on Science (Primary 1 – 6) Curriculum Guide (2025)</p> <p>Application Link https://s.jemex.me/2tyQUuDHu</p>	<p>QR Code</p> 
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Enquiry

13. For enquiries, please contact Dr CHEUNG Kam-wah, Thomas (Tel: 3698 3522) of the Science Education Section, Curriculum Support Division, EDB.

Dr William LAM
for Secretary for Education