

Science (S1-3) Teaching Plan Design Award Scheme

Objectives

To promote effective use of artificial intelligence in junior secondary science, the Science Education Section of the Education Bureau is launching the “Science (S1-3) Teaching Plan Design Award Scheme”. This scheme encourages teachers to develop learning and teaching resources to dovetail with the updated junior secondary science curriculum, integrate AI effectively into classroom practice, and enhance the effectiveness of addressing learning diversity. It also aims to establish a professional learning community among teachers to summarise and share quality school-based teaching examples, thereby promoting pedagogical innovations and enhancing student’s learning effectiveness.

Notes on Teaching Plan Design

- The teaching plan should be designed corresponding to the learning units of the Science (Secondary 1-3) Curriculum Framework (2025). The learning content should confine to a lesson of double period (about 80 minutes), and clearly indicate the learning outcome(s) of the relevant unit and the type(s) of scientific learning activity to be carried out. For example:

Unit 6: Living Things and the Environment

- 6.1 Photosynthesis and respiration

Lesson:

- Single lesson (40 minutes)

Learning outcome:

- recognise that photosynthesis is the process that plants make their own food during which light energy is converted to chemical energy
- collect evidence to show that light, chlorophyll, carbon dioxide and water are the necessary requirements for photosynthesis (S)

Scientific learning activity to be carried out:

- ☐ Observation ☐ Classifying ☒ Controlled experiment ☐ Pattern seeking
☐ Scientific modelling ☐ Engineering design ☐ Exploring Socio-scientific issue

- The L&T materials produced should integrate digital educational tools (including the use of AI) effectively into classroom practice, and enhance the effectiveness on addressing learner diversity, for example:

The digital educational tools used:

- ☐ Simulation ☐ Online platform ☐ Data-logger ☐ Mobile device
☐ Machine learning system ☒ GenAI ☐ Others

Briefly describe how the selected digital educational tool could address the difficulties or limitations encountered when teaching the relevant topic (not more than 150 words):

“Before conducting this experiment, students often encounter difficulties in making predictions before the experiment, as they may find it challenging to put abstract scientific concepts (such as the relationship between light intensity and the rate of photosynthesis) into quantitative predictions. This teaching plan uses GenAI to provide simulated experimental results, allowing students to practise analysing data before conducting the experiment, thereby developing students’ ability to evaluate experimental data.”

- The L&T materials should align with the following format requirements :

	Page (no more than)	Font size	Line spacing
Chinese	6	12	Single line spacing
English	8	12	Single line spacing

Notes on Submission of Entries

- Each school may only submit 1 teaching plan for each phase.
- Teacher interested in joining the award scheme should return the completed application form by mail or fax to Science Education Section, EDB on or before the dates below:

Phase 1	1 March 2026
Phase 2	1 March 2027 [Details to be announced in due course.]

Adjudication

- The teaching plans and the L&T materials will be shortlisted by the EDB, after which the adjudication panel will select the awarding entries.
- Judging criteria: entries will be assessed based on scientific thinking, creative thinking and computational thinking.
- Refer to **Appendix 2** for relevant information of the judging criteria.

Awards

- This Scheme presents Gold, Silver and Bronze Awards. Certificates will be awarded to teachers.

Use of Entries

- The EDB may use all or part of the entries (including school names) for education purpose and promotion of AI-assisted teaching, such as publicity, display (including but not limited to physical display or uploading to webpages), or other non-profit-making purposes (including school names).
- Awarded teachers will have the opportunity to be invited by the EDB to share their teaching plan design and teaching practice in teacher professional training seminars, sharing sessions, learning circles, etc.

Announcement of Results

- Results of the award scheme Phase 1 and Phase 2 to be released in June 2026 and June 2027 respectively. Details to be announced in due course.

Points to Note

- The EDB reserves the right to change, suspend or terminate the activity at any time. If there are any changes, announcements will be made on the webpage of Science (S1-3) Teaching Plan Design Award Scheme.
- The EDB reserves the right to change the awards without prior notice.
- The entry submission date and time will be determined by the timestamps recorded on the EDB's server system.
- Teachers should ensure that the information and content in their entries are in line with the curriculum aims and objectives set out by the EDB, contain no element of obscenity, abuse, violence, defamation and endangerment to national security, etc., and do not violate the laws of the HKSAR. Otherwise, the participants will be disqualified.
- Participants and their affiliated schools must ensure that the content of their work does not infringe any copyrights or publication rights. The EDB will not bear any legal responsibilities arising from copyright infringement. For details, please visit the Intellectual Property Department website: www.ipd.gov.hk/en/home/index.html
- All entries (including any parts of an entry) must be the original work of the teachers, free from plagiarism, and have never been released publicly, or used in other competitions. They must not infringe copyrights or interests of any other parties. The source of information has to be acknowledged if the information is cited. Participants will be held responsible for any disputes arising therefrom and may be disqualified.
- The teaching plans and/or the L&T materials cannot contain or quote the names, labels and trademarks of schools, companies and brands.
- The EDB reserves the right to reject any entries or disqualify any participants without any explanation.
- Teachers and schools shall agree that once an entry is submitted, the copyright belongs to the EDB. The EDB has the right to use all or part of the entries (including school names)

submitted by teachers for non-profit purposes, and has the right to modify, translate, adapt, use, copy, distribute and upload the entries onto the Internet, etc. without obtaining additional consent from the teachers or paying any fees including but not limited to copyright fees to the teachers.

Personal Information Collection Statement

- Participants should provide the necessary personal data in the application form and ensure the accuracy and completeness of such information. Participants must consent to authorise the EDB to release personal data (including the participants' name and school name) for contact, results announcement, and publicity purposes. All personal information collected will be destroyed once it is no longer required after the selection. If participants fail to provide such personal data, the EDB may not accept the respective entries.
- For the above purposes, the names of participants and relevant persons as well as the school names may be disclosed on the EDB website, other websites and/or to the media.
- Access via hyperlinks to websites other than that of the EDB implies that the users have left the EDB's website. The EDB is not liable to or responsible for any security and data protection issues in this regard.

Science Education Section, Education Bureau

September 2025

To : Science Education Section, EDB
Address: Room E232, 2/F, East Block, Kowloon Tong Education Services Centre,
19 Suffolk Road, Kowloon Tong, Kowloon
Fax number: 2194 0670

**Science (S1-3) Teaching Plan Design Award Scheme Application Form – Phase 1
(Application Deadline: 1 March 2026)**

1. My school will enrol in the teaching plan design award scheme. The details are as follows:

Name of School: _____

School Tel. No.: _____ School Email Address: _____

Name of Teacher-in-charge: [#] Dr / Mr / Ms _____

Contact No. of Teacher-in-charge: _____

Email Address of Teacher-in-charge: _____

Teachers participating in the design of the teaching plan:

Name (Chinese)	Name (English)

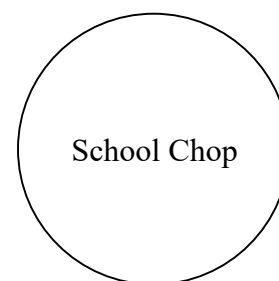
2. ☐ The teaching plan electronic form (Appendix 1) and the designed L&T materials **were uploaded** to the link: <https://forms.gle/ztV1C4kTQT6xZDEi6>.
(Please ✓ in the box.)



Name of Principal : [#]Dr / Mr / Ms _____

Signature of Principal : _____

Date : _____



Please delete as appropriate.