

Gifted Education Fund: Off-school Advanced Learning Programmes

Title of Programme	Hong Kong Insect Ecology Programme for Gifted Students
Programme Provider	Outdoor Wildlife Learning Hong Kong Limited
Theme(s)	<ul style="list-style-type: none"> • STEM-related Mentorship Programme • Humanities and Social Science Research Programme • Self-initiated Research Study
Maximum No. of Participants and Class Level in the 2021/22 School Year	32 students (Primary 4-5)
Pre-requisite	No special background knowledge or skills are required.
Programme Delivery Period	From August 2022 to April 2023 (9 months) (tentative)
Medium of Instruction	Course Material: Chinese supplemented with English Class teaching/Discussion: Cantonese supplemented with English
Objectives	<ul style="list-style-type: none"> • To enhance gifted students' interest and knowledge in ecology and biodiversity through the study of insects; • To develop students' problem-solving skills, self-directed learning skills and presentation skills through scientific enquiry and design and make activities; and • To cultivate students' positive values and attitudes such as care for our natural environment, respect for life and civic responsibility.
Programme Outline*	<p>This programme aims to enhance gifted students' interest and knowledge of ecology and biodiversity, and equip them with necessary skills to conduct scientific enquiry and devise relevant applications. They will also develop positive values and attitudes that are essential for personal growth and the development of the community. The programme consists of four phases.</p> <p>Phase I (15 hours in total; 5 sessions)</p> <ul style="list-style-type: none"> • This phase provides basic knowledge and skills of studying ecology and biodiversity to students. Major learning and teaching (L&T) activities in this phase include lectures, interactive games and field trips (day-time and night-time inclusive). <p>Phase II (16 hours in total; 5 sessions)</p> <ul style="list-style-type: none"> • This phase introduces the ecology and diversity of insects with focus on the three common orders of insects, i.e. lepidoptera (butterfly and moth), odonata (dragonfly and damselfly) and hymenoptera (bee, wasp and ant). Major L&T activities in this

phase include interactive lessons and field trips.

Phase III (12 hours in total; 4 sessions)

- Students will study in this phase the importance of insects for the ecosystem and human beings and also, in reverse, the impact of human activities on insects and the natural environment. Emphasis will be made on the civic responsibility of environmental protection. Major L&T activities include interactive lessons, farm visit, design and make activities, etc.

Phase IV (7 hours in total; 3 sessions)

- Students will engage in individual project learning on a topic related to insects and apply what they have learnt from phase I to phase III. Students will conduct surveys and research under the guidance of a mentor and design a poster, a model or other relevant deliverables for presentation by the end of this phase. Students will showcase their findings/deliverables to parents and other attendees at the closing ceremony of the programme.

* In view of the latest development of the COVID-19 pandemic, the programme provider may need to modify the learning and teaching activities as a contingency.