



Agriculture, Fisheries and Conservation Department

## Hong Kong Country Parks Education Kit for Secondary Schools

### Ecosystems

#### Topics covered:

- Basic features of an ecosystem
- Ecosystems in Hong Kong
- Abiotic factors affecting organisms
- Ecological succession

#### Background information:

[Tai Po Kau Nature Reserve](#) is a special area in Hong Kong containing different habitats with high biodiversity. After the visit to the Reserve, students will understand different aspects of ecosystems.

#### Teaching objectives

1. To introduce the major types of ecosystems in Hong Kong, highlighting freshwater streams, grasslands, woodlands, shrublands, etc.
2. To provide students with an opportunity to explore the ecosystems in [Tai Po Kau Nature Reserve](#)
3. To introduce abiotic factors affecting organisms in the wild.
4. To observe secondary ecological succession in the [Tai Po Kau Nature Reserve](#).

#### Suggested study mode

#### Field study

#### Suggested country park/visitor centre for the field study

- [Tai Po Kau Nature Reserve](#)

#### Suggested procedures

1. Go to [Worksheet BIO-4](#). Walk along the field trip route of any one of the country parks suggested to explore and record the habitats you visit. Have the students draw pictures or paste photos of the habitats on the worksheet.
2. Go to [Worksheet BIO-5](#). Have the students investigate abiotic factors in [Tai Po Kau Nature Reserve](#) by indirect measurement.
3. Visit the secondary forest in [Tai Po Kau Nature Reserve](#) and / or the habitat showing secondary succession. Have the students complete the drawing exercise in [Worksheet BIO-6](#) and answer the question regarding primary and secondary ecological succession.