

Ecology — Revision Booklet

Name:

Date:

INQUIRY

Use this booklet to revise all key ideas from the Ecology unit. Work through examples, then practise.

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Ecosystem	Biotic + abiotic factors interacting.
Food chain	Shows energy flow: producer -> consumers.
10% rule	Only ~10% of energy passes to the next level.
Adaptation	Structural, behavioural, or functional feature for survival.
Biodiversity	Variety of species. Higher = more stable.
Conservation	Protecting habitats and species.

Topic 1: Ecosystems

1. Name 3 biotic and 3 abiotic factors in a Nanjing park. [3 marks]

Topic 2: Food Chains & Energy

2. Producer has 100,000 kJ. Calculate energy at primary, secondary, and tertiary consumer levels. [3 marks]

Show your working:

Topic 3: Adaptations

3. Give one structural, one behavioural, and one functional adaptation of a polar bear. [3 marks]

Topic 4: Human Impact & Biodiversity

4. Explain why the 10-year Yangtze fishing ban could increase biodiversity in the river. [3 marks]