

# 9.9 Endangered Species

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Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

**Total: 10 marks**

## Objective

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Build the skills to answer exam questions on **endangered species**.

**You must be able to:**

- describe causes of endangerment (**HIPPO**)
- explain conservation strategies
- link small populations to extinction risk

## 1 Worked examples

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Study these first. Each one shows the method for a question type used later —follow the steps and you can do the Practice and Exam-style questions yourself.

### ■ Causes of endangerment (**HIPPO**)

- **Habitat** loss (biggest cause).
- **Invasive** species.
- **Pollution**.
- **Population** (human) growth.
- **Overexploitation** (hunting, fishing).

### ■ Small populations are at risk

A small population has **low genetic diversity** and is vulnerable to disease, inbreeding, and random events, raising **extinction risk**.

### ■ Conservation strategies

- **Protected areas** and habitat restoration.
- **Laws** (e.g. Endangered Species Act, CITES banning trade).
- **Captive breeding** and reintroduction.
- **Wildlife corridors**.

### ■ A worked link

A species losing its habitat to farmland has fewer, smaller, isolated populations, which lose genetic diversity and become more likely to go extinct.

## 2 Practice

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Now apply the methods above.

**2.1** What is the biggest cause of species endangerment? [1]

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**2.2** State one conservation strategy. [1]

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**2.3** Why is a small population at higher extinction risk? [1]

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## 3 Exam-style questions

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**3.1** In the HIPPO acronym, the first "P" stands for [1]

- **A** predators
  - **B** pollution
  - **C** photosynthesis
  - **D** phosphorus
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**3.2** A species is endangered by habitat loss and hunting.

(a) Name two conservation strategies that could help. [2]

(b) Explain why its small remaining population is vulnerable. [2]

**3.3** Explain how international agreements like CITES help protect endangered species. [2]

## 4 Go further

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You are now ready for the real exam questions on this subtopic:

- work through the **9.9 Endangered Species** lesson on the **Learn** page;
- read the **Endangered Species** section of the AP Environmental Science handout on the **Know** page.

## Solutions

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**2.1** Habitat loss.

**2.2** Any one: protected areas, laws, captive breeding, corridors.

**2.3** It has low genetic diversity and is vulnerable to disease, inbreeding, and chance events.

**3.1 B** —pollution.

**3.2** (a) Any two: protected areas/habitat restoration, laws banning hunting/trade, captive breeding. (b) A small population has low genetic diversity, so it is vulnerable to disease, inbreeding, and random events that could wipe it out.

**3.3** CITES restricts or bans international trade in threatened species, reducing the demand that drives overexploitation, so fewer are hunted or collected.