

# Human Impact on Ecosystems

Name:

Date:

**INQUIRY**

**Nanjing's air quality improved dramatically since 2015. What changed — and is it enough?**

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

Term	Definition
<b>Deforestation</b>	Clearing forests for farming, logging, or development.
<b>Pollution</b>	Harmful substances released into the environment.
<b>Climate change</b>	Long-term shift in temperatures and weather patterns.
<b>Conservation</b>	Protecting and restoring natural habitats.

## Part A — Identifying Impacts

1. List five ways humans negatively impact ecosystems. For each, give one specific example from China, Korea, or Germany. [5 marks]

2. The Yangtze baiji dolphin and Chinese paddlefish are both extinct. Both were top predators. Explain the wider impact using food web knowledge. [4 marks]

## Part B — Solutions

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3. China's giant panda population increased from ~1,100 to ~1,800. Describe TWO conservation strategies that helped. [4 marks]
4. Germany produces ~46% of its electricity from renewable sources (Energiewende). Explain how switching to renewables reduces impact on ecosystems. [3 marks]
5. China imposed a 10-year fishing ban on the Yangtze River (2021-2031). Predict three ways the ecosystem might change over the 10 years. [3 marks]

## Part C — Take Action

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6. Propose THREE realistic actions NIS could take to reduce its environmental impact. For each: (a) what the action is (b) which impact it reduces (c) how to measure success. [6 marks]