

AI Detective

Be a detective: decide whether each pretend AI answer is right, wrong or needs checking – and explain why.

Name _____ Date _____ Class _____

Learning objective: I can check AI answers and spot mistakes.

✓ I can spot an answer that is wrong ✓ I can spot an answer that is too certain ✓ I know how to check facts

These are **pretend** AI answers written for this worksheet. Some contain deliberate mistakes. Decide: **right, wrong or needs checking** (too certain or only partly true).

1 Case files Circle your verdict.

- 1 Question: What gas do humans breathe out?
AI said: "Humans breathe out mostly oxygen."
☐ (A) right ☐ (B) wrong ☐ (C) needs checking
- 2 Question: What is 9×6 ?
AI said: " $9 \times 6 = 54$."
☐ (A) right ☐ (B) wrong ☐ (C) needs checking
- 3 Question: How many continents are there?
AI said: "There are seven continents."
☐ (A) right ☐ (B) wrong ☐ (C) needs checking
- 4 Question: What is the capital of Wales?
AI said: "The capital of Wales is Swansea."
☐ (A) right ☐ (B) wrong ☐ (C) needs checking
- 5 Question: Which is the longest river in the UK?
AI said: "The River Thames is the longest river in the UK."
☐ (A) right ☐ (B) wrong ☐ (C) needs checking
- 6 Question: Are all spiders dangerous to people?
AI said: "Every spider in the world is deadly."
☐ (A) right ☐ (B) wrong ☐ (C) needs checking

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2 More case files Circle your verdict.

- 1 Question: When did the Great Fire of London happen?

AI said: "The Great Fire of London was in 1666."

(A) right (B) wrong (C) needs checking

- 2 Question: How many sides does a hexagon have?

AI said: "A hexagon has eight sides."

(A) right (B) wrong (C) needs checking

3 Correct the AI Choose two of the wrong answers and write a corrected version.

- 1 Correction 1:

- 2 Correction 2:

4 How to check a fact Number the steps in order.

☐

A Compare the answers.

☐

B Read the AI's answer carefully.

☐

C Ask a teacher or adult if you are still unsure.

☐

D Look it up in a trusted source, such as a reference book or a reliable website.

☐

E Ask: does this sound right? Is it too certain?

Answer Key

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Question	Answers
1 Case files	1 B (wrong) – Wrong – the waste gas we breathe out is carbon dioxide. Exhaled air is still mostly nitrogen, and it contains less oxygen than the air we breathe in.; 2 A (right) – Correct.; 3 A (right) – Correct – using the most common model taught in UK schools.; 4 B (wrong) – The capital of Wales is Cardiff.; 5 B (wrong) – The River Severn is the longest; the Thames is the second longest.; 6 C (needs checking) – Far too certain – most spiders are harmless to people, and only a few are dangerous.
2 More case files	1 A (right) – Correct.; 2 B (wrong) – A hexagon has six sides; an octagon has eight.
3 Correct the AI	1. e.g. The capital of Wales is Cardiff. 2. e.g. A hexagon has six sides.
4 How to check a fact	Correct order: B, E, D, A, C Read the AI's answer carefully. → Ask: does this sound right? Is it too certain? → Look it up in a trusted source, such as a reference book or a reliable website. → Compare the answers. → Ask a teacher or adult if you are still unsure.

Teaching note: The mistakes in the AI answers are deliberate and are corrected here. Note for case 1: exhaled air is mostly nitrogen, but it contains much more carbon dioxide (and less oxygen) than inhaled air – the AI was wrong to say 'mostly oxygen'.