

Name _____

Class _____

Date _____

By the end of this worksheet I can...

- ☐ question assumptions and dig for root causes
- ☐ spot bias and check sources
- ☐ scrutinise my own reasoning and consider counter-arguments

I DO

Worked example Read how a full-mark answer is built

A website run by a fizzy-drink company says their drinks help pupils concentrate.

1 Explain why you should be careful using this source. (2 marks)

Full-mark answer each ✓ is one mark

The company makes money from selling the drinks, so it may be biased in favour of them ✓. I would check who carried out the research and whether independent, reliable sources such as NHS or university studies agree ✓.

Why marks are not awarded

"It might be wrong."

0 points: doesn't say why or how to check.

WE DO

Guided practice Use the starters and word bank to help you

The brief says the school toilets are "always messy".

2 Use the five whys to dig into the root cause. (3 marks)

Sentence starters

One ... is ..., which means ...

Another ... is ..., so ...

Also, ... because ...

Word bank

deeper · reaches · repeatedly · building ·
states · supervision · removed · vandalism

Tip: 3 marks = 3 separate, developed points.

YOU DO

On your own No notes. Check your answers afterwards.

3 Quick check: tick one box for each.

a) What is the purpose of the five whys?

- ☐ To find the root cause of a problem ☐ To fill time at the start of a project ☐ To choose a colour scheme for an idea ☐ To write the questions for a survey

b) Only reading reviews that agree with your idea is...

- ☐ Lateral thinking ☐ Confirmation bias ☐ Fail & Fix ☐ Empathy

c) A brand's own website says its trainers are the best. This information may be...

- ☐ Primary research ☐ A prototype ☐ A persona ☐ Biased

4 Key terms: write the letter of the matching description next to each term.

- | | | |
|-----------------------------|-------|--|
| 1. Critical thinking | _____ | A Information that leans one way |
| 2. Five whys | _____ | B Questioning information and ideas, including your own |
| 3. Assumption | _____ | C Ask "why?" repeatedly to find the root cause of a problem |
| 4. Bias | _____ | D Something taken for granted without checking |

5 Explain what is meant by 'Confirmation bias'. (2 marks)

6 Explain what is meant by 'Checking a source'. (2 marks)

Check and reflect

Mark your answers with the answer sheet. Go back to the checklist on the site and re-rate each "I can" statement above. Which one still needs work?
