

# Critical Thinking in AI Use Scale

## 13-item measure — Items & Instructions

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**Source:** Lau, G. R., Low, W. Y., Tay, L., Guevarra, Y. A., Gašević, D., & Hartanto, A. (2026). Understanding critical thinking in generative artificial intelligence use: Development, validation, and correlates of the critical thinking in AI use scale. *Computers in Human Behavior Reports*, 22, 101103. <https://doi.org/10.1016/j.chbr.2026.101103>

### Instructions

**Preamble:** Think about how you usually use AI tools (e.g., chatbots, image generators, voice assistants). For each statement, indicate how true it is of your typical behaviour.

**Response scale (1–5):** 1 = Strongly disagree • 2 = Disagree • 3 = Neither agree nor disagree • 4 = Agree • 5 = Strongly agree.

The scale has 13 items across three subscales. Subscales can be analysed separately; each subscale score is the mean of its items (range 1–5).

### Items

#### Verification of source and content

- 1 I often look at the sources of AI content before I rely on it.
- 2 I sometimes check other sources or expert opinions to help judge what AI says.
- 3 I try to check whether AI content is reliable.
- 4 I think it is important to check the accuracy of AI information.
- 5 I often check AI content to make sure it is correct and clear.

#### Motivation to understand AI

- 6 I try to understand how AI creates its answers whenever I can.
- 7 Sometimes I feel motivated to learn how AI works so I can judge its answers better.
- 8 I try to understand why the AI makes certain recommendations.
- 9 I try to understand why AI gives different answers.

#### Reflection on responsible AI

- 10 I sometimes think about how using AI might affect the environment.
- 11 I often think about the ethical problems that AI content might cause.
- 12 I sometimes think about how the growing use of AI might change society.
- 13 I sometimes think about who benefits or gets hurt by the things AI says.

**Scoring.** Verification = mean(items 1–5); Motivation = mean(items 6–9); Reflection = mean(items 10–13).

All scores range from 1 to 5.

Note. Items reproduced from Table 1 (final 13-item version) of Lau et al. (2026). Rated on a 5-point Likert scale from 1 (strongly disagree) to 5 (strongly agree).

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