

This is my screen-reader friendly version of my Metacognition Infographic. There is no formatting, just a list of points regarding the basics of metacognition and answering questions. You can find these resources at <https://caitkirby.com>. Written by Cait Kirby.

## Metacognition

Metacognition is thinking about your thinking.

How do I practice metacognition?

Consider context of knowledge. Ask: when is this information true and not true? What knowledge am I building on? What knowledge does this connect to? Where else can I apply this information?

Reflect on methods of learning. Methods: flashcards, reading, writing, lists, outlines, mnemonics, teaching others, slides, songs, and memes.

Map out your problem-solving strategies. Strategies: Use the CER or Claim, Evidence, Reasoning method. Draw a picture. Make an outline. Make a concept map.

One after class activity is clearest & muddiest point. Instructions: after each class, write down the concepts that were clear and muddy (unclear). Go to office hours to discuss your muddy points.

How to answer a question on an exam for full credit.

Answer using the CER method.

Claim: an assertion or statement.

Evidence: data.

Reasoning: logic or principle.

Example: what kind of triangle is this? An image of a triangle with a square shown at the largest angle, indicating it is 90 degrees.

Claim: this triangle is a right triangle.

Evidence: the largest angle is 90 degrees.

Reasoning: angles of 90 degrees are right angles.

Pro tips for answering questions:

Be concise. Underline the key words in your answer. Unless prohibited, schematics and drawings often help. Stay on-topic; irrelevant information is irrelevant. Integrate learning objectives from syllabus into answer. Number parts of question and corresponding parts of answer.

Ask questions about the question you're answering. Ask why is my professor asking me this question? Ask what material related to this from class? Ask what information might my professor be looking for? Ask how can I demonstrate my knowledge?