

Critical Thinking

Nataliia Zakharevych



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01

Critical Thinking

What is it?

Problem

Thinking

Solution





"We cannot solve problems with the
same thinking we used when we
created them."

Albert Einstein

Thinking is the way that the mind makes sense of the world.



There is no way to understand anything except through thinking.



The **RED Model** is an effective and powerful critical thinking tool that provides a systematic, step-by-step process for examining issues, events, people, and problems.



Higher level thinking must be cultivated, requires some effort,
and takes practice...

"What we hope ever to do with ease, we must learn first to do with diligence." - Samuel Johnson

and an open mind... ***"It is the mark of an educated mind to be able to***

entertain a thought without accepting it." – Aristotle

but it is so worth it!

"Any fool can know – the point is to understand." - Albert Einstein



02

Why is it important?

How does it improve teaching
and learning?

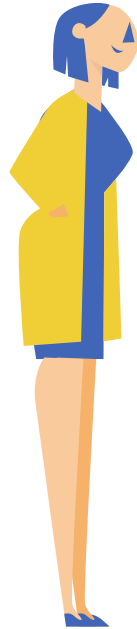


*"Study without reflection is a waste of time; reflection without study is dangerous."
-- Confucius*

I am not a parrot!



Why is critical thinking important?



- To learn is to think
- To think poorly is to learn poorly
- To think well is to learn well
- All content, to be learned, must be intellectually constructed
- Memorizing IS NOT learning

Teaching strategies that promote critical thinking



Open-ended assignments



Case studies



Reflections



Discussions



High level thinking questions



03

Be a critical thinker

Steps to effective thinking

Attributes of critical thinkers

Rational

Asks right questions



Open minded



What hinders critical thinking?

Practice of rational
thinking

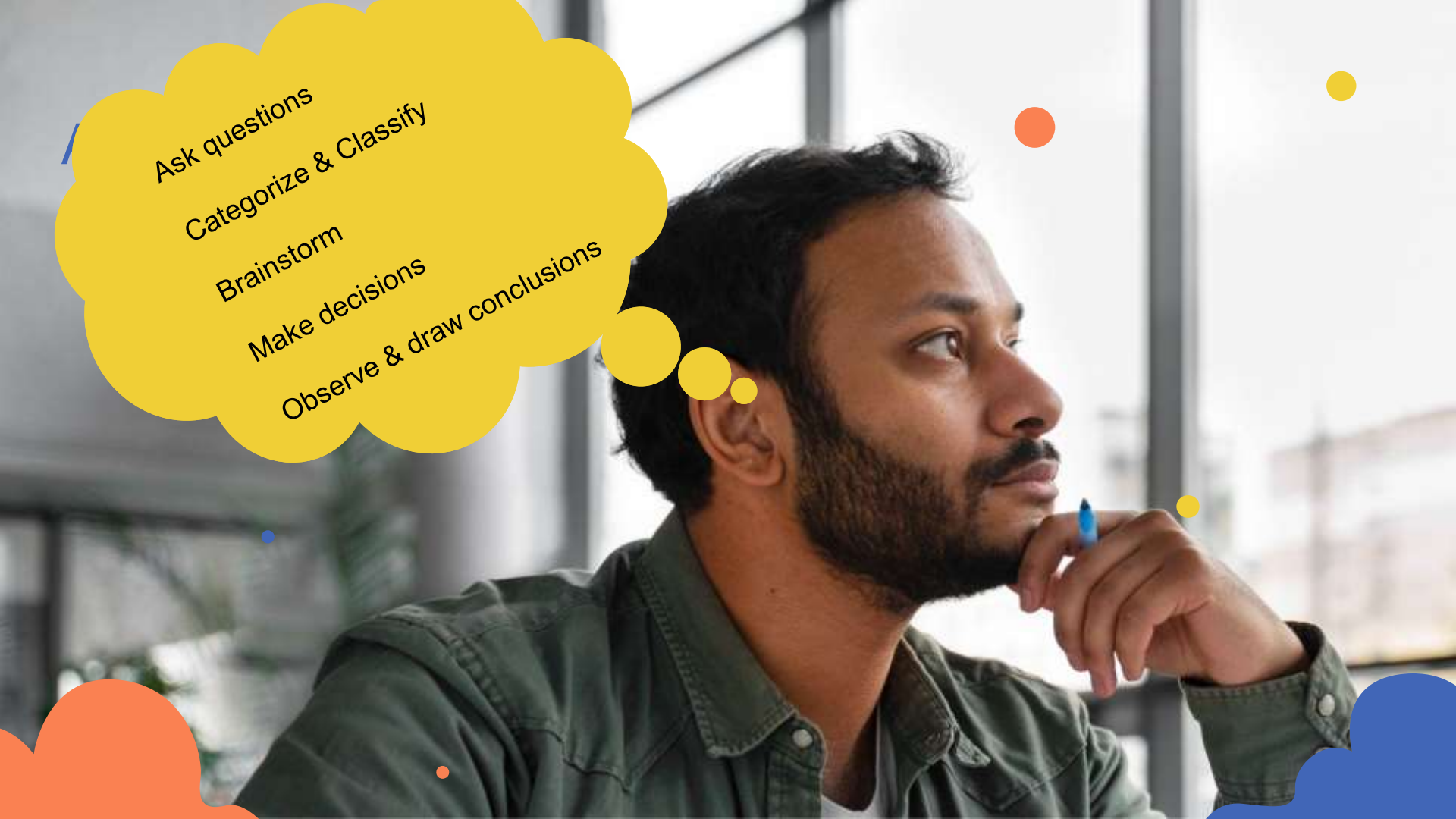


Inherited opinion

Personal
biases



Intellectual
laziness

A man with a beard and dark hair is shown in profile, looking out a window. He has a thoughtful expression and is holding a blue pen to his chin. A large yellow thought bubble is positioned above his head, containing a list of five steps. The background is a bright, out-of-focus window view. The image is decorated with various colored circles and shapes: a blue line, a yellow circle, an orange circle, a yellow circle, a blue circle, a blue cloud-like shape, and an orange cloud-like shape.

Ask questions

Categorize & Classify

Brainstorm

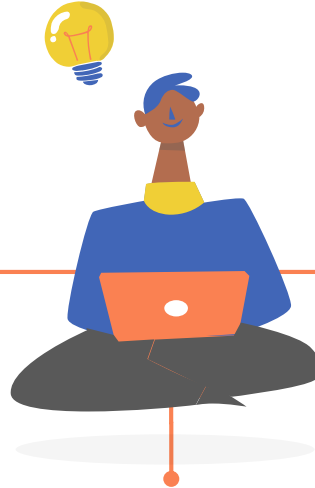
Make decisions

Observe & draw conclusions

Steps to effective thinking

Identify the problem

- What is the real question we are facing here?



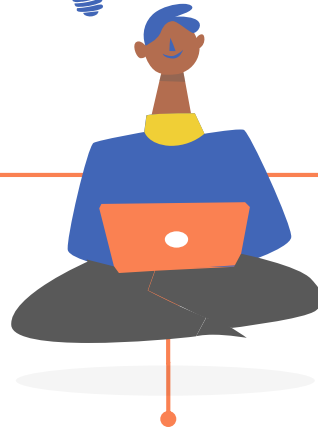
Define the context

What are the facts and circumstances for this problem?

Enumerate choices

What are the most plausible choices?

Steps to effective thinking



Analyze options

What is our best course of action, all things considered?

List reasons explicitly

Why are we making this particular choice?

Self-correct

Let's look at it again.
What did we miss?

The background is white with several decorative elements: a blue cloud-like shape in the top-left corner, a yellow and blue shape in the top-right corner, a yellow dot in the upper-left, a yellow dot in the upper-right, a blue dot in the middle-right, and a blue dot in the lower-right. At the bottom, there are yellow and orange cloud-like shapes and a small orange dot on the left.

04

Digital Tools

Tricider

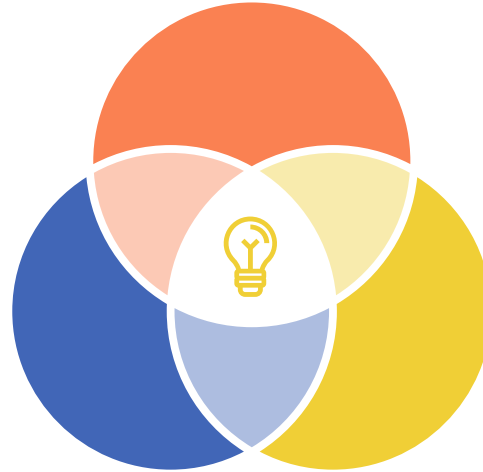
• TRICIDER

Depending on the questions asked, this type of tool can spark healthy debates and discussions that students will find fun.



TRICIDER

- How can I teach with this tool?



What is it?

Is it good for learning?

