

Thinking Skills

Creative thinking

Any lesson can develop creative thinking if it involves pupils generating and extending ideas, suggesting hypotheses, applying imagination and finding new or innovative outcomes.

Try to include opportunities for creativity in the lessons you teach. Look for evidence of pupils':

- using imagination
- generating questions, ideas and outcomes
- experimenting with alternatives
- being original
- expanding on what they know or say
- exercising their judgment

Critical thinking

- Analyzing the past
- What evidence?
- What is the author's purpose?
- Convergent thinking
- Skepticism is a virtue

Meta-cognitive reflection

- What do I want to understand?
- What have I learned?
- What do I still need to learn?
- Provide feedback for reflection
- Regulate ones behavior

Questions ... Engaging the student

- Logical Sequential
- Open ended
- Listening is the first step in good questioning
- Provocative
- Engage
- Encourage higher order thinking



Good mental habits

Maintain the state of doubt and to carry on systematic and protracted inquiry --- these are the essentials of thinking

Wonder is the mother of all science (Curiosity)

Constant challenging your ideas with curiosity is what makes solving a problem fun.

John Stuart Mill: "To draw inferences has been said to be the great business of life. ... It is the **only occupation in which the mind never ceases to be engaged."**

