

## **APPROACHES TO LEARNING**

The Approaches to Learning is crucial for the inquiry learning process in context with the transdisciplinary themes. They are grounded in the belief that learning how to learn is fundamental to our student's education that aims to support students of all ages to become self-regulated learners who know how to research, to think critically and creatively, communicate properly, demonstrate social skills, and pursue their aspirations with balanced self-management.

## How can students think critically?



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Practise observing carefully in order to recognize problems

Gather and organize relevant information to formulate an argument

**Recognize unstated assumptions and bias** 

Interpret data

**Evaluate evidence and arguments** 

**Recognize and evaluate propositions** 

Draw reasonable conclusions and generalizations

Test generalizations and conclusions

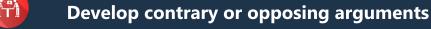
**Revise understanding based on new** information and evidence



**Evaluate and manage risk** 

Formulate factual, topical, conceptual and debatable questions

**Consider ideas from multiple perspectives** 



Analyse complex concepts and projects into their constituent parts and synthesize them to create new understanding



**Propose and evaluate a variety of solutions** 



**Identify obstacles and challenges** 



## How can students be reflective?



Use brainstorming and visual diagrams to generate new ideas and inquiries

**Consider multiple alternatives, including** those that might be unlikely or impossible

**Create novel solutions to authentic problems** 



Design improvements to existing machines, media and technologies

Design new machines, media and technologies



Make guesses, ask "what if" questions and generate testable hypotheses



Apply existing knowledge to generate new ideas, products or processes



Create original works and ideas; use existing works and ideas in new ways



Practise flexible thinking—develop multiple opposing, contradictory and complementary arguments



Practise visible thinking strategies and techniques

Generate metaphors and analogies

## How can students be reflective?



Use effective learning strategies in subject groups and disciplines



Apply skills and knowledge in unfamiliar situations



Inquire in different contexts to gain a different perspective



Compare conceptual understanding across multiple subject groups and disciplines



Make connections between subject groups and disciplines



Combine knowledge, understanding and skills to create products or solutions



Transfer current knowledge to learning of new technologies



Change the context of an inquiry to gain different perspectives

