A framework to define

Imagination in STEM

Across literature on STEM practice and STEM education, definitions of "imagination" vary in a number of ways. The visual tool below presents a way to organize the characteristics of these definitions along three dimensions: **essence**, **ways of thinking**, and **context**. Using this framework, you can build definitions of imagination relevant to your work (see page 2).

ESSENCE How imagination is characterized/ what it is	Cognitive, ph and emotion	THINKING ysical, social, al processes imagination	CONTEXT Contexts towards which imagination is focused, or in which it emerges
Activity Ability Capacity Faculty Foresight Process Trait	Associating Creating Creativity Embodying Empathizing Feeling Forming concepts Futures thinking Hypothesizing Innovating Mental practice Moral thinking Navigating inconsistency	Organizing Playing Perspective taking Possibilities thinking Problem solving Prototyping Reflecting Representing Reproducing Self-identifying Speculating Transforming Understanding Visualizing	Self and Social Contexts Within the self In relation to others Contexts of Presence and Absence In reality To the senses Within experiences Related to what is known Fictive or Hypothetical Contexts In relation to fictitious possibilities Within narrative or storytelling In play scenarios Temporal Contexts Related to past or future

COMMON DEFINITIONS OF IMAGINATION

Ability	то	Visualize	In relation to what is present to the senses.
Activity	OF	Possibilities Thinking	In relation to past, present, future.
Capacity	FOR	Creativity	In relation to what is present in reality.

Build your own definitions

Use the tool below to build definitions of imagination relevant to your work.

DIMENSIONS

Write in your favorite terms from page 1 or add in your own.

ESSENCE	WAYS OF THINKING	CONTEXT

COMBINATIONS

Write in your own combination of terms (the top line is an example of a combination for reference).

Example Combination	Ability	то	Visualize	In relation to what is present in reality
Write your own				



