

Adaptive Reasoning

"Adaptive reasoning refers to the capacity to think logically about the relationships among concepts and situations. Such reasoning is correct and valid, stems from careful consideration of alternatives, and includes knowledge of how to justify the conclusions."

"Adaptive reasoning is used to navigate through the many facts, procedures, concepts, and solution methods and to see that they all fit together in some way, and that they make sense."

"Adaptive reasoning is the ability to justify one's work. We use justify in the sense of providing sufficient reason for."

"Often a solution strategy will require fluent use of procedures for calculation, measurement, or display, but adaptive reasoning should be used to determine whether the procedure is appropriate."

National Academies of Sciences, Engineering, and Medicine. 2001. Adding It Up: Helping Children Learn Mathematics. Washington DC: The National Academies Press. <https://doi.org/10.17226/9822> (pg. 129-131)