CME PROJECT

Connecting the Habits of Mind to the Standards for Mathematical Practice

Mathematical Practice Standards	Mathematical Habits of Mind
#1 Make sense of problems and persevere in solving them	Performing thought experiments Expecting math to make sense
#2 Reason abstractly and quantitatively	Finding and explaining patterns Creating and using representations Generalizing from examples "Delayed evaluation" – Seeking form in calculations Purposefully transforming and interpreting expressions Seeking and specifying structural similarities
#3 Construct viable arguments and critique the reasoning of others	Expecting math to make sense Extending operations to preserve rules for calculating
#4 Model with mathematics	Creating and using representations "Delayed evaluation" – Seeking form in calculations
#5 Use appropriate tools strategically	Seeking and specifying structural similarities Purposefully transforming and interpreting expressions
#6 Attend to precision	Expecting mathematics to make sense Seeking and expressing regularity in repeated calculations
#7 Look for and make use of structure	"Delayed evaluation" – Seeking form in calculations "Chunking" (changing variables in order to hide complexity) Reasoning about and picturing calculations and operations Extending operations to preserve rules for calculating Purposefully transforming and interpreting expressions Seeking and specifying structural similarities
#8 Look for and express regularity in repeated reasoning	Seeking and expressing regularity in repeated calculations Generalizing from examples Finding and explaining patterns Purposefully transforming and interpreting expressions