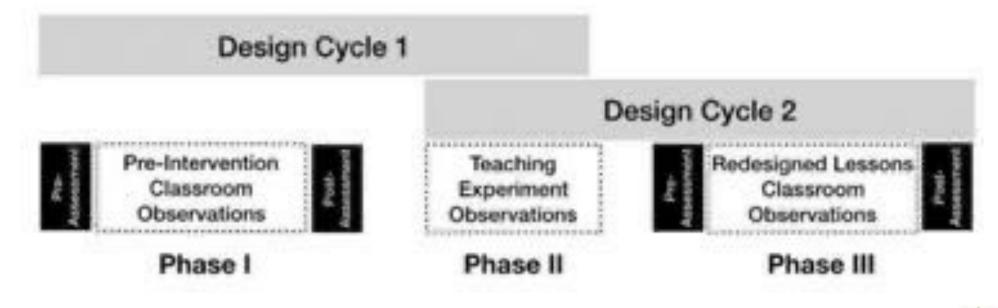
Two Design Cycles

• Design-based research (Cobb et al., 2003)







Design Framework

Academic Literacy in Mathematics for emergent bilingual students (Moschkovich, 2015; Moschkovich & Zahner, 2018)

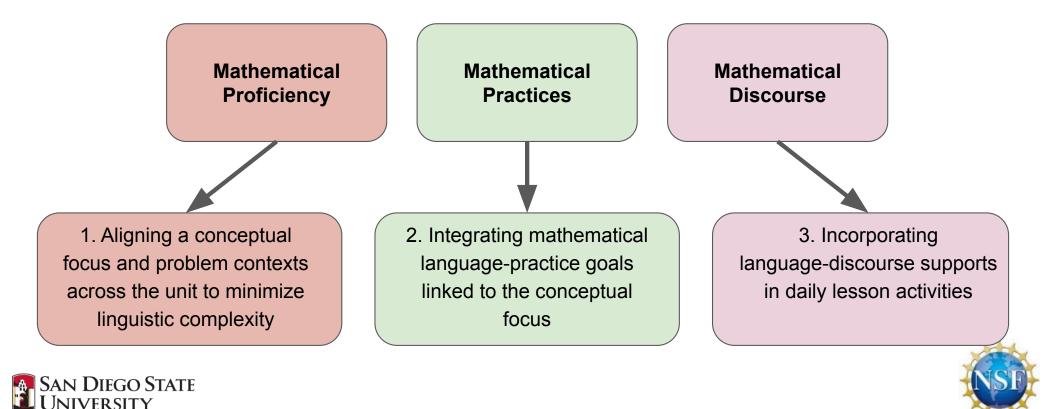
Mathematical Proficiency Mathematical Practices Mathematical Discourse





Design Principles

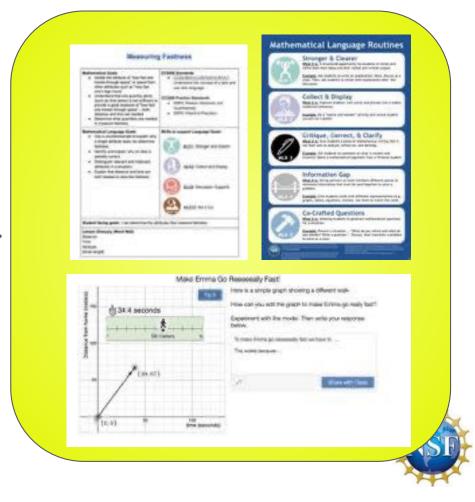
Dimensions of ALM Framework \rightarrow Project-Specific Design Principles



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Example: Introducing Linear Rate of Change





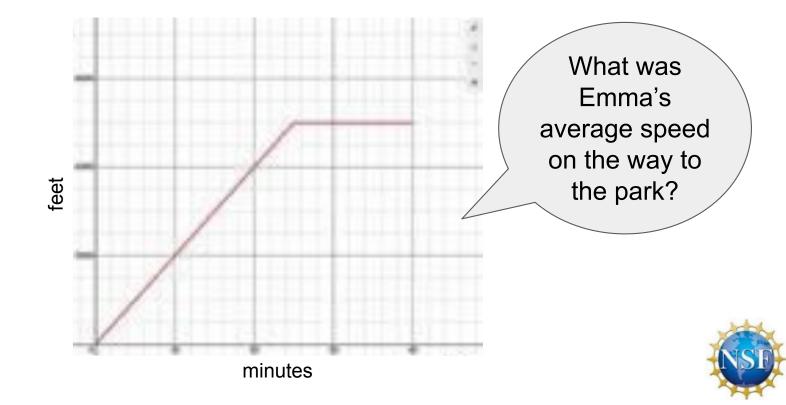
Pre- and Post- Redesign Video Illustrations





Video Example: Pre-Intervention

Mr. S. Introduces slope as speed / average rate of change in distance-time graph



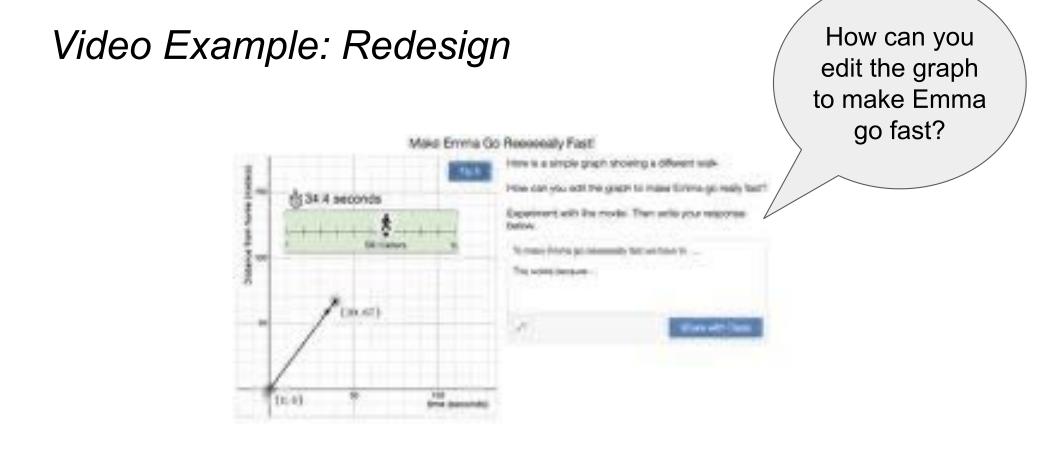


Video Example: Pre-Intervention













Video Example: Redesign







What did you notice & wonder?

I noticed...

I wonder...



