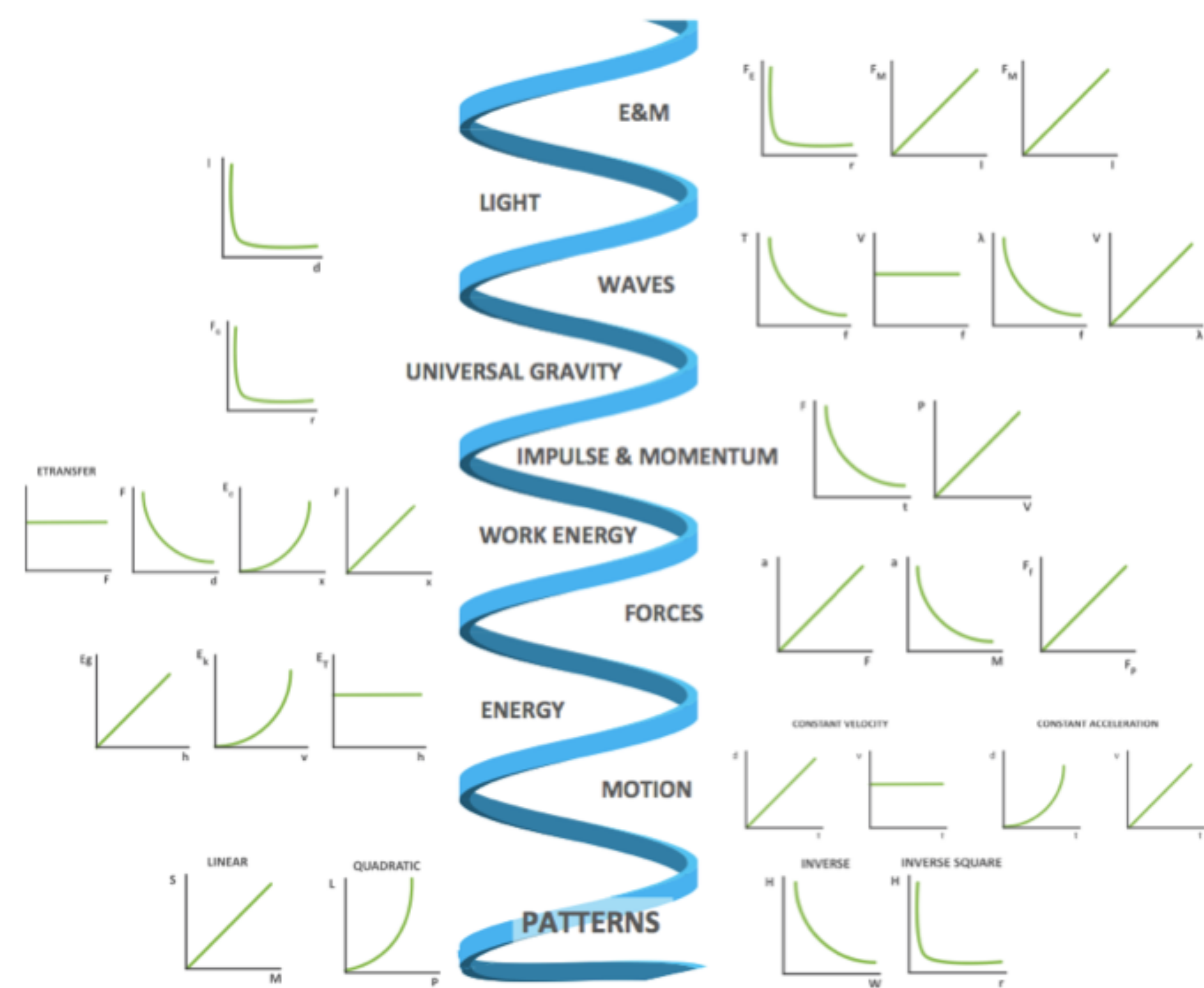


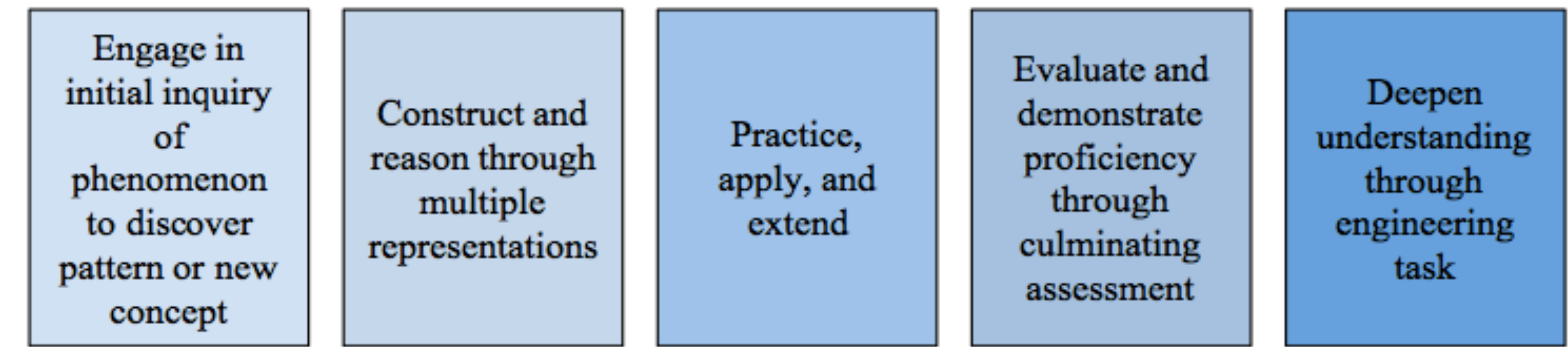
The Patterns Approach:

A Comprehensive Model for Meaningful STEM Integration in Physics

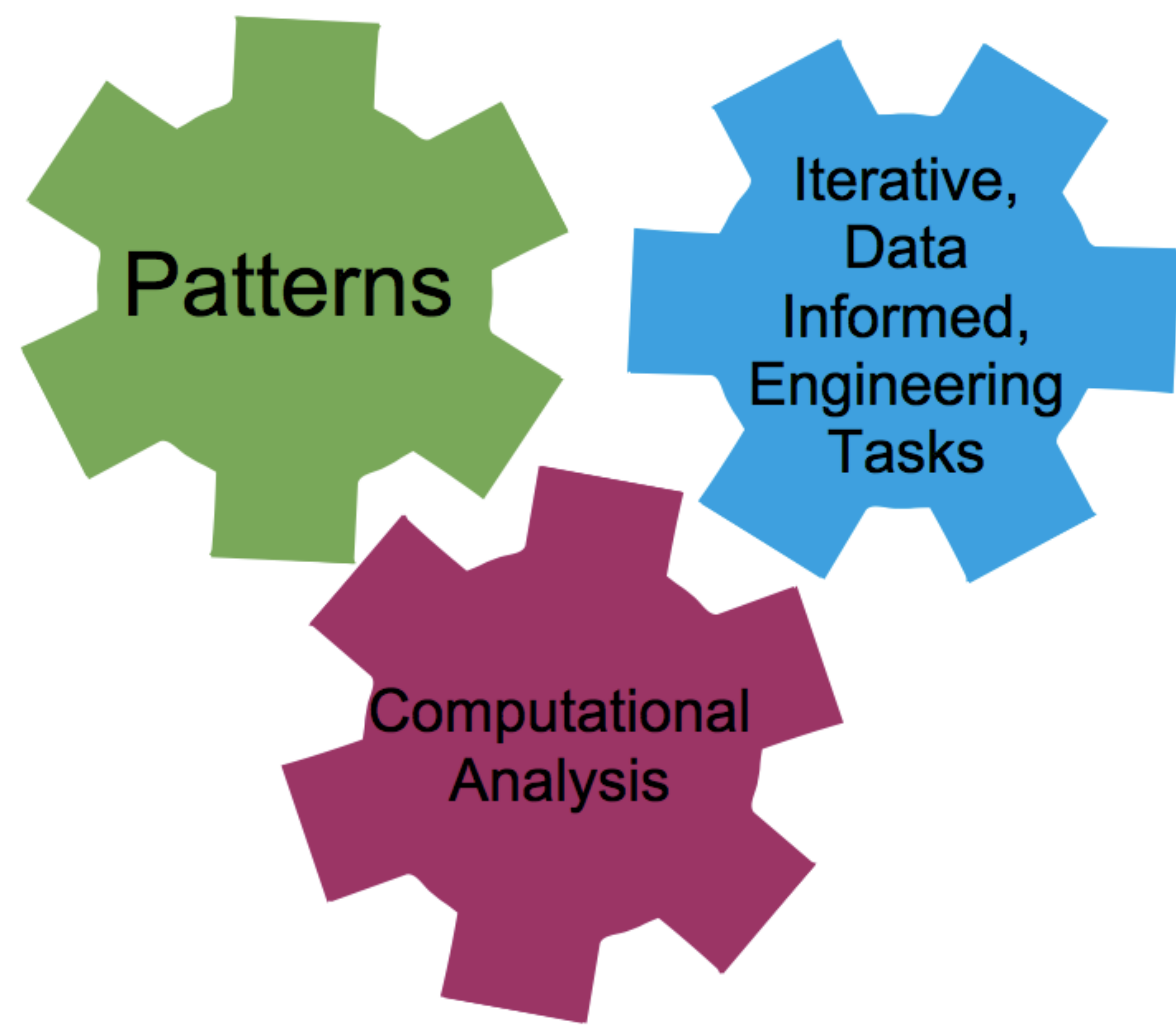
Bradford Hill, Southridge High School, Portland, OR bradford_hill@beaverton.k12.or.us
 Heather Buskirk, Johnstown High School, Johnstown, NY hbuskirk@johnstownschooils.org



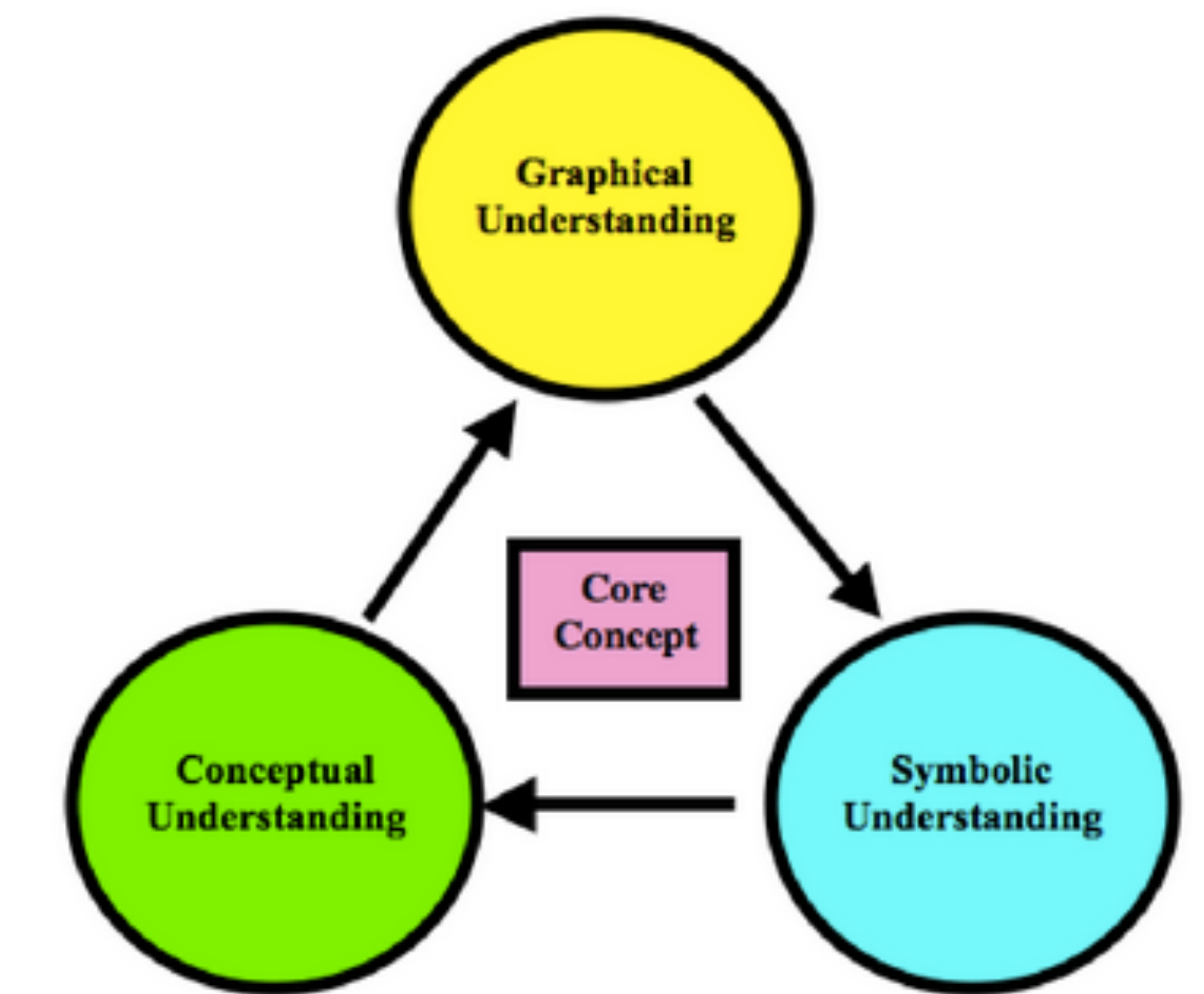
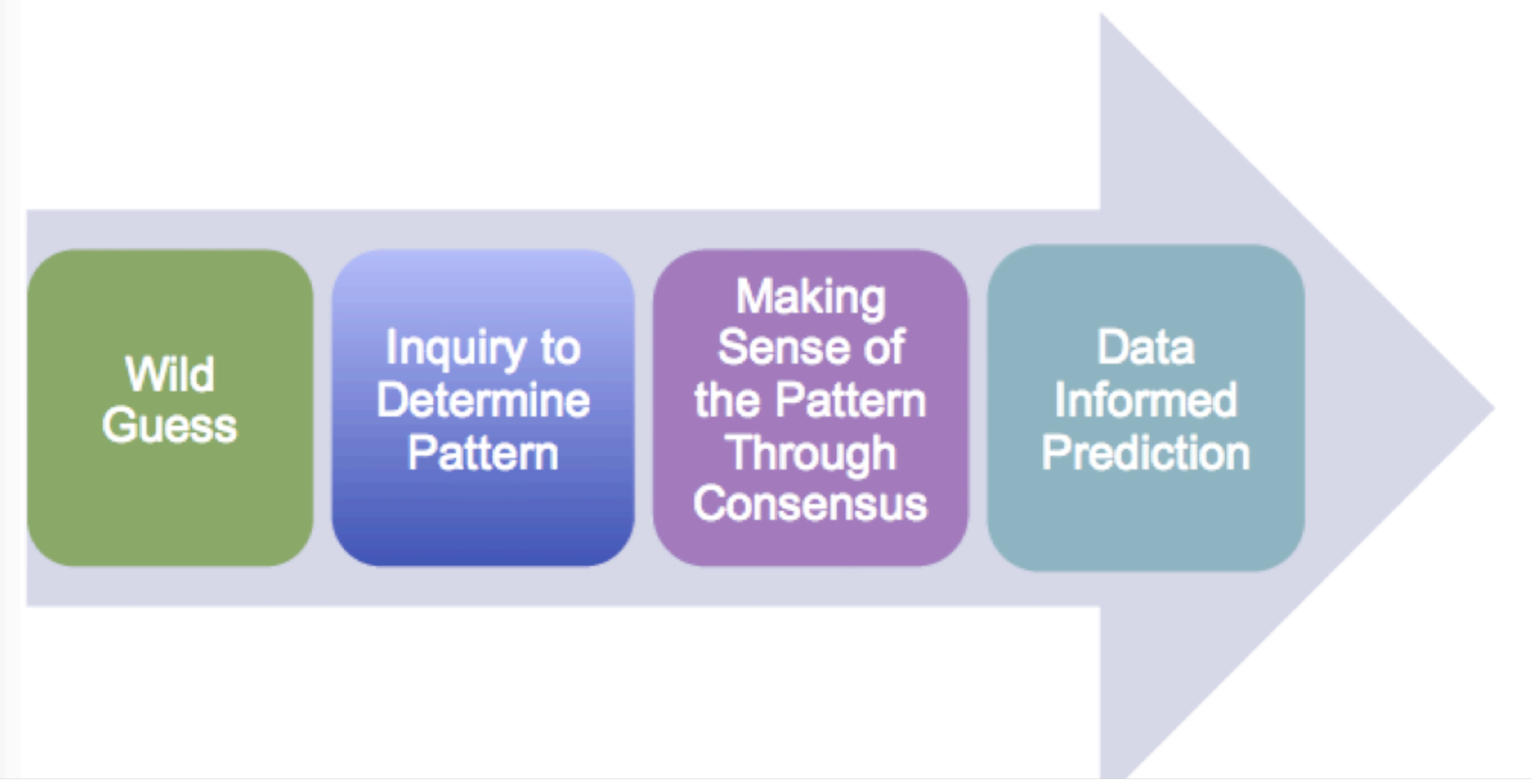
Pathway to Building Flexible Understanding



Teacher initiated, ongoing formative assessment and multiple opportunities to demonstrate proficiency



Path to Better Decision Making Through a Progression of Deliberate Experimentation



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