

#TheColemanExperience

The 5E Instructional Framework:
Every Student, Every Teacher, Every Day



The Engineering Design Process:
Coleman's Problem Solving Method

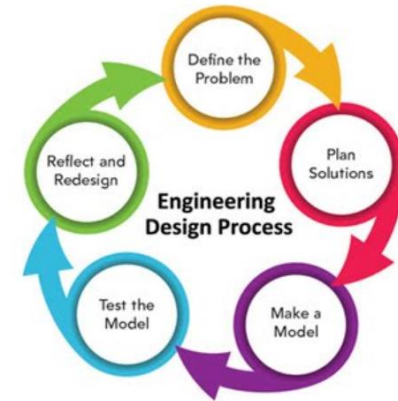
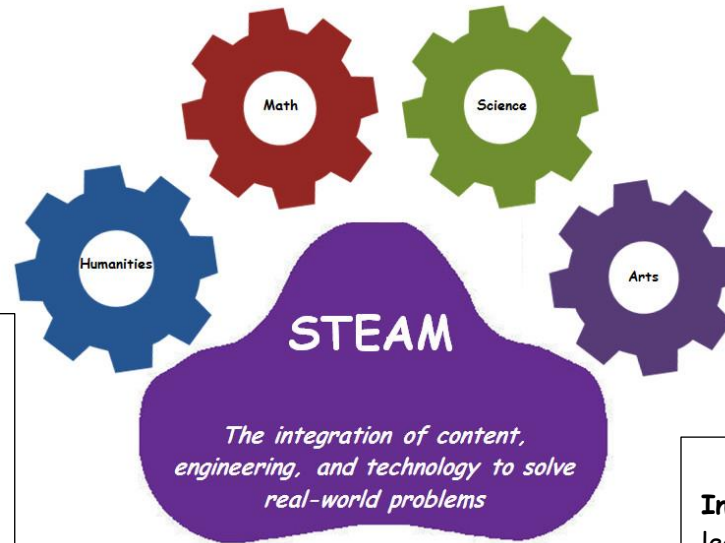
Engage

Explore

Explain

Extend

Evaluate



Humanities

Integration of Language Arts and Social Studies AKS - Social Studies curriculum taught through the lens of literacy

Focus on both **fiction** and **non-fiction** to emphasize all four areas of literacy - **reading, writing, speaking, and listening**

Reading informing the teaching of **writing**

Math

AKS instruction through **vocabulary, critical thinking, problem solving, and real-world application**

Emphasis on **continuum of learning** through **guided math model** including small group instruction for **differentiated learning**

Use of technology for both **computation and data analysis**

Problem Based Learning integrating Science, Math, Humanities, and the Arts

Arts Integration using design elements and principles as a springboard

Reading and Writing to understand and communicate empathy, significance of real-world problems, and potential solutions

Real-World Problem Solving using the Engineering Design Process

Integration of Technology promoting students as creators of technology

Science

Instruction of AKS through **inquiry-based learning**

Frequent, **high-yield lab experiences** to support **inquiry and application of content**

Use of technology for **data collection and analysis**

The Arts

Band, Orchestra, Dance, Music Technology, Theater Arts, Visual Arts, Spanish

Project Based Learning units integrating **multiple art disciplines**

Focus on **future generation skills** - creativity, communication, collaboration, critical thinking

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Evaluate

- Student sharing and reflecting; teacher gathering data to inform future instruction

Extend

- Student practicing at the appropriate level; teacher providing differentiated support

Explain

- Teacher modeling processes, strategies, and expectations for student work

Explore

- Student engaged in guided practice and/or collaborative work; teacher providing differentiated support

Engage

- Teacher providing direct instruction to establish learning goals, context for the lesson, and application to the real world