Using the Engineering Design Process to Develop Growth Mindset

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PLTW Launch Design Process
“Pin the Scenario”
PLTW Launch Design Process

• What is it?
  • PreK-2 Design Process video

• Why we use it?

• How can you use this in the classroom?
  • Real-world application
  • Career Connections
  • Family Connections
  • Discussions and guiding questions

• Reflection
Design Process and Growth Mindset

• Tangible way to get unstuck
• F.A.I.L.
  • First Attempt In Learning
  • “End is not the end, in fact END means "Effort Never Dies. If you get No as an answer, remember NO means Next Opportunity. So let’s be positive.”
• Discuss: What are the benefits? How does this build growth mindset?
Design Process by Grade Level

1. Ask
2. Generate Concepts
3. Design Solution
4. Build and Test
5. Evaluate Solution
6. Present Solution

1. Present Problem
2. Generate Concepts
3. Design Solution
4. Construct and Test
5. Evaluate Solution
6. Present Solution