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BENEFITS OF VIRTUAL SIMULATORS

on STEM Education

CHALLENGES OF EFFECTIVELY IMPLEMENTING THE ENGINEERING CYCLE IN THE CLASSROOM

HURDLES

- set up/clean up time
- amount of materials
- the extent of standards to be covered
- physical space for long term storage
- inability to complete as many trials as needed

SOLUTION

- Units of study are paired with a Challenge question
- Each class period students use a virtual simulator & journals to log their process through the Engineering Cycle
- Students report their findings with their peers at the conclusion of the Unit

ONLINE VIRTUAL SIMULATORS & STEM JOURNALING

INCREASES STUDENT ENGAGEMENT

Solving real-world problems is the core of STEM Curriculum

Providing more opportunities for your students to actively participate in the Engineering Cycle through application of the Scientific Method, students will develop a deeper understanding of STEM content and strengthen problem solving skills.

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