

Idea Lab at Pinewood

Lower School

What is Idea Lab?

Idea Lab is a Pinewood Signature Program designed for students to learn and apply the engineering process in hands-on activities and lessons that center on STEM (Science, Technology, Engineering, and Mathematics). Many of the activities blend in with the Arts and engage students to use their creativity within a lesson.

Grades PK3 - 1

Curriculum for this age group involves the teaching method of tinkering. Tinkering focuses on giving students realistic problems that they must solve using various classroom items and basic engineering programs and materials.

Programs used include:

- Kubo & Dash-N-Dot Robotics
- Lakeshore Products
- Magnets
- Building Blocks (different forms)
- Legos

Grades 2 - 5

Students learn how to implement the engineering process throughout many advanced hands-on materials and programs. Several of the activities are built around teamwork, collaboration, and learning life-long social skills to be career ready.

Programs used include:

- Cubletes
- Ovobots
- Hydro-tower (Hydroponics/Aeroponics)
- Squishy Circuits
- EcoScience Kits
- PITSCO Products
- 3-D Pens
- Coding/Programming



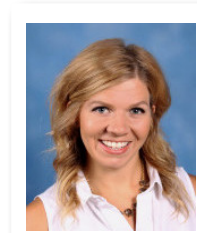
"In 2018, it was projected that 2.4 million STEM jobs were unfilled." - Smithsonian Science Education Center



"Out of 100 STEM occupations, 93% of them had wages above the national average. The STEM job average salary is \$87,570." - Bureau of Labor Statistics, 2018



"STEM related jobs are the fastest growing need in the United States. Within the last ten years, STEM related jobs have tripled from 8.6% to nearly 25% of all U.S. jobs." - University of Pennsylvania



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2018 Recipient of International STEM, ISEA
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