



Wee Engineer®

Anyone, even the youngest learners, can think like an engineer.

Designed as the first preschool engineering curriculum, Wee Engineer channels all learners' curiosity and creativity into structured problem solving that sets them up for success in school and life.

Hands-on engineering challenges empower young children to see themselves as problem solvers. They learn that there's more than one way to solve a problem, and that it's OK to fail and try again. While engaging in a well-designed engineering challenge, children practice social, motor, physical, cognitive, and language skills.

AGES 3 TO 5

PRESCHOOL

4  HANDS ON CHALLENGES



Simple, fun challenges tailored to today's preschool setting

We designed and tested Wee Engineer with educators in the field to ensure its four engaging, hands-on challenges match preschoolers' abilities, interests, and attention spans. Each Wee Engineer challenge connects to a typical "station" that is common in a preschool and/or Pre-K setting.

We created a unique, simplified engineering design process specifically for preschoolers. By following its three steps—**explore, create, improve**—young children learn not only how to solve problems, but how to reflect on the process and improve their designs.

“ This program is excellent for this age. My students are only 4 years old and I was amazed by the ideas they would come up with. I am completely fascinated with the idea of letting them know that **we are all engineers.** ”

YESENIA TORRES, Pre-K Teacher, Lewisville, TX

We know Wee Engineer works, because we developed and extensively tested it with educators in 52 preschool and Pre-K classrooms across the country.

Tap their natural curiosity and creativity

CREATE 21ST CENTURY LEARNERS

As young learners engineer a solution, they develop the 21st century skills that they'll need as they move through school. They'll learn how to communicate their ideas, problem solve with their peers, and reflect on how well they solved the problem by testing, evaluating, and improving their designs.

BE READY FOR STEM

Age-appropriate challenges ease learners into the worlds of science and technology, long before stereotypes about “who can engineer” take hold. And with the onset of NGSS standards in K-8, we help introduce engineering early so children can be ready for success.

BRING OUT THEIR INNER ENGINEER

Watch any young child at play—building towers, designing sandcastles—you'll notice they are natural engineers. Wee Engineer encourages learners to apply that curiosity and creativity in thoughtful ways.

Engineering is a fun way to help children think about the designed world in which they live. Through engineering design challenges, educators can empower their young learners to solve problems creatively and collaboratively.



Implement Wee Engineer with ease

PROFESSIONAL DEVELOPMENT

Build skills, knowledge, and confidence in our learner-centered workshops. Educators get the skills they need to foster student-centered, inquiry-based learning while enhancing their knowledge of engineering content.

RESOURCE LIBRARY

An extensive digital library shows best teaching practices in action, helps teachers understand the pedagogy, and supports teaching engineering in the elementary classroom.

CURRICULUM COMPONENTS

- Educator guide with 4 challenges
 - *Noisemakers*
 - *Fans*
 - *Wrecking Balls*
 - *Rafts*
- Materials kit for 20 children
- Engineering Design Process wall poster and cards



Ready to learn more?

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