



LEGO® Education

Future-proof your students' skills, and make them confident lifelong learners by giving them unlimited possibilities for playful, hands-on STEAM learning.



STEAM Learning with LEGO® Education

For more than 40 years, LEGO® Education has been developing engaging STEAM learning experiences for students in early learning, primary and secondary education, alongside after-school programs and competitions. LEGO Education solutions spark creativity, collaboration, and critical thinking, helping educators create an environment where learners build resilience and confidence in learning through the power of purposeful play.

Building Confidence for Lifelong Learning

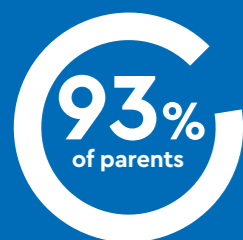
LEGO® Education's overall ambition is to future-proof students and inspire them to become confident lifelong learners. If we meet each student where they are, challenge them appropriately and allow them meaningful failures, they'll ultimately succeed.

With LEGO Education learning experiences, students become increasingly sophisticated in their ability to apply STEAM knowledge and transferable STEAM practices to solving real-world problems, hands-on. This builds their confidence and desire to learn more and try more.

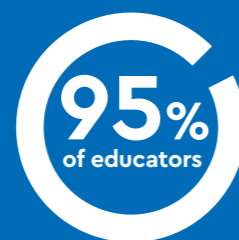


Building Confidence with Hands-On STEAM Learning

Global survey results reveal that lifelong learning starts with confidence, and hands-on lessons support student success.



believe hands-on learning builds students' confidence



believe the number 1 way their students build confidence in STEAM subjects is working on hands-on projects with others

#1

Confidence Builder

Students, parents, and teachers agree that the best way to build students' confidence in STEAM is by working on a hands-on project with others.

Benefits of Hands-On Learning for Students

89%

of students say that hands-on learning helps them learn new things.

87%

of students say that hands-on learning helps them remember the topics longer.

91%

of teachers would like to integrate more hands-on lessons in their classrooms.



3 out of 4

teachers say that anxiety, and lack of confidence hinder learning.



Fewer than 1/5

students are "very confident" in learning STEAM subjects.

Take Students on a Learning Journey with LEGO® Education

Preparing students for an ever-changing world that's increasingly shaped by technology means ensuring that they become lifelong learners. While foundational skills are a must, it's vital to focus on the whole learner and to help students develop a holistic skillset, including 21st century skills, like communication, collaboration, problem-solving, and creativity.

LEGO® Education offers playful learning experiences that provide a way for students to naturally discover and engage in purposeful play. Purposeful play is rooted in pedagogical approaches, such as project-based learning, which are known to improve learning outcomes while instilling a love of learning.

A System of Learning

LEGO Education's STEAM solutions are rooted in purposeful play and backed by highly effective and playful research-based pedagogies. Our solutions are designed as a system of learning to support teachers, empowering them to bring these pedagogies to life in pursuit of student learning. The LEGO® Learning System unlocks the power of learning through purposeful play with comprehensive standards-aligned lesson plans, introductory materials, teacher support, and professional development.

The LEGO Learning System offers a toolbox of interconnected solutions that work seamlessly together, delivering not only successful academic outcomes but holistic growth. The system's scalable design makes it easy to implement at the classroom, school, or district level to provide an integrated continuum of learning that builds year-over-year. Using our integrated approach, educators can support meaningful, actively engaging, iterative, socially interactive, and joyful learning.



Interconnected Solutions That Work Seamlessly Together

The easy-to-adopt LEGO® Learning System offers solutions that work with or without technology. Implement the full system at once or introduce individual solutions over time. Built-in scaffolding makes it easy for students and teachers to get started and move seamlessly through the learning experiences, driving familiarity over time to unlock deeper learning across grade levels.



A strong foundation for moving into the LEGO Learning System.
All of our early learning solutions build on the same learning-through-play principles to stimulate children's curiosity and desire to explore together—preparing them for school and life.

Premium, technology-enhanced STEAM solutions.
The LEGO® Education SPIKE™ Portfolio encourages broad STEAM learning and the application of computational thinking with a focus on coding, technology, and digital integration.



Non-tech solutions with a focus on physical science.
LEGO® Education BricQ Motion provides a foundational understanding of physical science concepts and an analog introduction to computational thinking.



Competency-Based Framework

Our professional development program is founded on a competency-based framework that's rooted in four core competency categories: Pedagogy, STEAM Concepts, 21st Century Skills, and Classroom Management. These critical competencies enable teachers to fully realize the learning promises of every LEGO Education solution, giving them the skills they need to facilitate lessons that drive student learning outcomes.

Personalized Professional Development

A selection of self-guided and facilitated learning is offered virtually and on-site. This flexible, comprehensive professional development program builds teachers' confidence and prepares them to foster student success.

Confident Teachers Develop Confident Students

Our progressive, competency-based LEGO® Education Professional Development Program builds teachers' confidence and competency in delivering effective playful, hands-on STEAM learning at every level. This experiential, personalized learning program is designed to actively engage teachers and produce a strong set of transferrable instructional skills and strategies.

Self-Guided Learning

This free, online, on-demand, self-guided learning targets teachers' individual needs and learning preferences. Using instructional product training videos and interactive competency-based courses, teachers can practice core competencies in Pedagogy, 21st Century Skills, STEAM Concepts, and Classroom Management, and become confident facilitators of playful, hands-on STEAM learning.

Facilitated Learning

These full-day product training courses are led by a certified LEGO Education trainer. Held virtually or on-site, these courses provide engaging learning experiences that build teachers' confidence in facilitating playful, hands-on STEAM learning using LEGO Education products.



An Investment in Skills At Fulham School



Brendan O’Keeffe is the Head of Digital Learning at Fulham School in London. It’s part of the Inspired Schools Group serving 50,000 students in 70 schools on 5 continents. He recently took over the computer department and began looking at the existing curriculum, which he calls, “a really interesting kaleidoscope of exciting but fragmented ideas.” He found really good content, but it was missing something that could guide students through a progression of skills and knowledge, keeping them engaged and excited about STEAM subjects. That’s when he decided to try LEGO® Education BricQ_Motion Essential, LEGO® Education BricQ_Motion Prime, and LEGO® Education SPIKE™ Prime.

Three key factors made the decision an easy one

A brand you know and love.

O’Keeffe said, “You can’t discount that recognition from children, and even adults. LEGO® has robotics street cred!” He went on to say that BricQ_Motion was the perfect springboard for helping his students feel comfortable trying ideas and taking risks because they could say, “I know LEGO—if things go wrong, I can just start over.”

Built-in scaffolding for easy adoption.

The videos, lesson plans, and other bonus content was a big deal for O’Keeffe, who designed the new pilot curriculum for his school with the goal of rolling it out across Europe. O’Keeffe says, “There’s a huge wealth of resources that creates a nice safety net for teachers, which in turn encourages greater confidence across the board.” He thinks that in order to develop confident students you need confident teachers, and he believes that’s what the online resources provide.

A toolbox to unlock unlimited possibilities.

“The sets provide everything our students need, with masses of future content available at the click of a mouse,” says O’Keeffe. He pointed to the inclusive color palette of SPIKE Prime in particular, as evidence of the thought that went into making it a universally accessible and inviting tool. He says, “All of the kids have loved the look and feel of the sets immediately—the sets really open things up for as many children as possible.”

Bringing the Concept to Life

O’Keeffe ordered 50 classroom sets and 250 Personal Learning Kits, which allow for easy remote and hybrid adaptability. The pilot kicked off over three weeks, each focusing on a different concept. The first two weeks took place remotely.

Week 1

focused on momentum. Students learned how forces interact, talked about Newton’s first law, and built models to illustrate and test these concepts.

Week 2

introduced students to iterative design. They designed and built towers and vehicles, which they discussed and then rebuilt to improve their designs.

Week 3

saw students return to the classroom to learn about simple mechanisms with BricQ_Motion. They built mechanisms to move a Minifigure from place to place.

Laying the Foundation for STEAM Success at Hillsborough County Public Schools

LEGO® Education's Professional Development Program, has built more than 50 teachers' confidence and competency in delivering effective playful, hands-on STEAM learning with LEGO® Education SPIKE™ Prime



The Challenge

With a student population of over 200,000, and two thirds on free or reduced lunch, Hillsborough knew that to successfully grow their secondary computer science program they had to ensure equity in their primary and secondary school students' ability to develop a strong foundation. They wanted highly targeted professional development and a hands-on solution that fosters computational thinking and deepens students understanding of STEAM concepts.

The Solution

The implementation of customized professional development focused on familiarizing teachers with LEGO® Education SPIKE™ Prime and creating hands-on engaging STEAM learning experiences to integrate into their curriculum and pacing plans. With their new tools, resources and knowledge base these teachers are providing students with a critical foundation of STEAM learning that ignites their curiosity and prepares them for future success.

The Impact

More than 50 teachers who now have the confidence and skill to deliver fun and engaging hands-on learning experiences through SPIKE Prime, regardless of where learning takes place. And over 1000 students who will benefit from their expertise and the low floor-high ceiling STEAM learning opportunities that SPIKE Prime allows for.



How can LEGO® Education support you?

LEGO® Education is here to help you every step of the way to ensure a successful STEAM journey for both educators and students.

LEGO Education helps you deliver all the benefits of hands-on STEAM learning, giving your students a great start to developing 21st century skills with:

- A system of interconnected solutions
- Intuitive LEGO® brick sets & apps for a range of devices
- A progression of STEAM lessons and activities aligned to national standards
- Competitions and after-school programs

We support you in streamlining and integrating playful learning experiences into your existing curriculum by providing:

- Embedded unit plans for instant availability
- Tools and rubrics for assessing students' progress
- Free online professional development and opportunities for in-person training
- Online and phone technical support

Our solutions are backed by a commitment to sustainability, safety, and quality, including:

- Active involvement in sourcing sustainable plastic, reducing CO2 emissions, and targeting zero waste
- Compliance with stringent safety standards
- Strictest policies for safeguarding online privacy
- Adherence to all national and international requirements governing play materials
- A deep commitment to both product quality and ethical values



[LEGOeducation.com](https://www.legoeducation.com)