

Be A Scientist!

BE A SCIENTIST! is a broad implementation project in which undergraduate engineering students teach science to underserved families with children grades 1-5 in South Central LA and NYC.

Vision

Iridescent's 15 year strategic plan is to work with **15,000** engineers & scientists, **520,000** parents and **21,000** educators, to collectively inspire and support **1.2** million children to develop life traits of Curiosity, Creativity & Persistence.

Challenge

Year-to-year retention. **-30%** of families come for 2 consecutive years, **8%** for 3 years and **4%** for 4 consecutive years in a row. (n = 769)

Strategy

Training parents in pedagogy and leadership to increase co-investment in the program. Training includes:

- Introduction to: Fixed vs Growth Mindset & Bloom's taxonomy.
- Tips on doing science at home
- Accessing additional curriculum and mentors via Curiosity Machine online platform
- Organizing Family Science Courses

Families Mentored
online by engineers & scientists

Engineers Develop

and teach hands-on design challenges to local underserved families

By leveraging **Engineers, Parents & Technology**, we can provide high-quality **STEM** education to thousands of children, for many years



Train Parents & Educators

to use this curriculum and reach more families



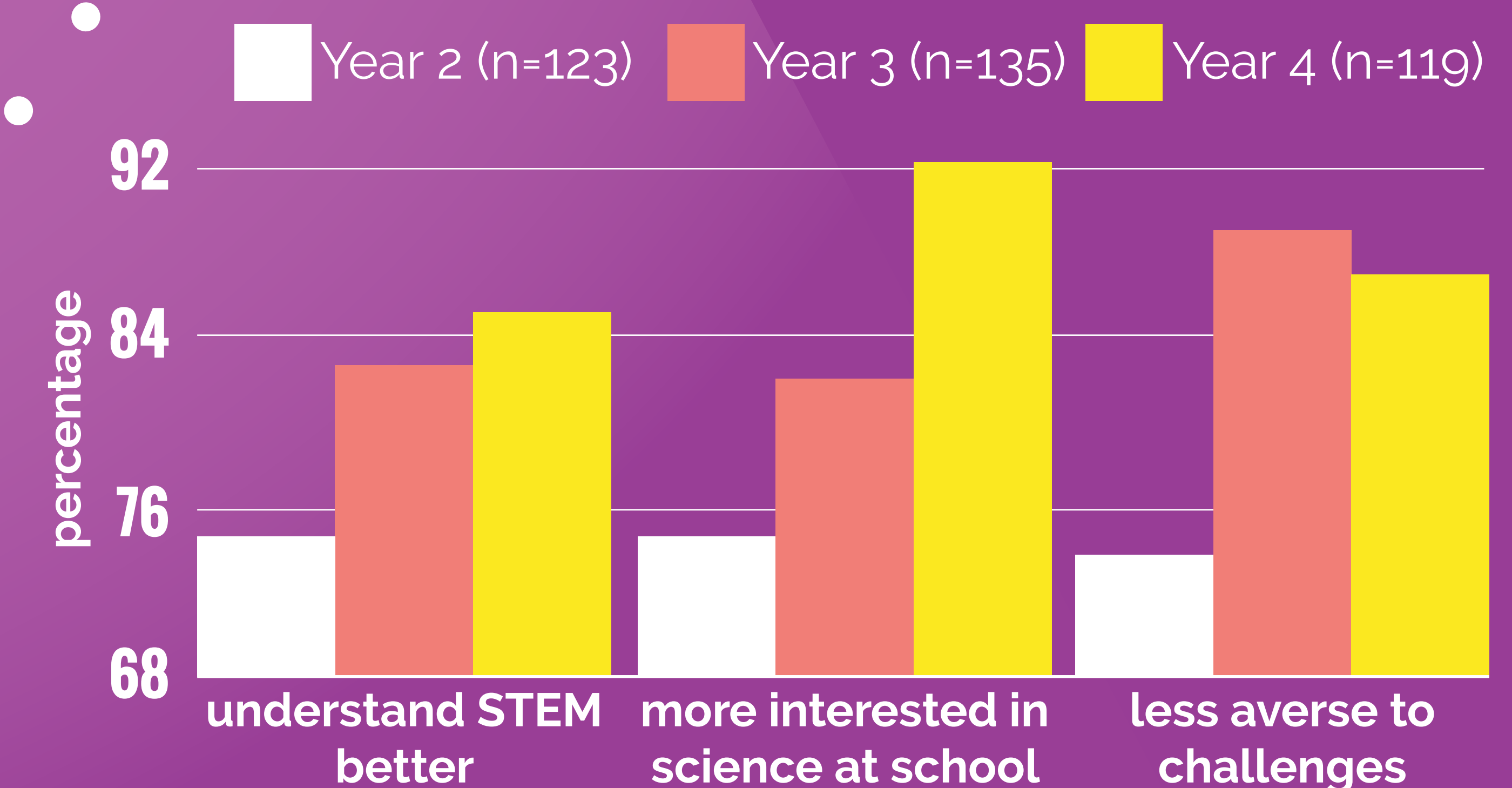
LEARNING GAINS: ENGINEERS

- Developed science communication, public speaking, collaboration and leadership skills
- Developed critical thinking skills and creativity
- Sharpened own understanding of engineering concepts
- Deeper understanding that there are multiple solutions to a problem
- Rediscovered own passion by inspiring others

Produce Videos

for best design challenges and publish online

Learning Gains for Children



LEARNING GAINS: PARENTS

- ~50% of returning parents reported talking about science either daily or once a week compared to ~30% of first-time parent participants.
- Deeper understanding of STEM; enabling them to explain concepts to children better
- Learned to build science experiments in fun and engaging ways: led to more science at home.
- Developed a greater confidence as children see them as problem-solvers and sources of knowledge
 - Positive perception of STEM and STEM jobs