

Endeavor

STEM Literacy and Career Exploration

Eighty percent of the nation's fastest-growing careers require skills from one or more STEM fields. In fact, science and engineering job opportunities are expected to grow at double the rate of jobs in other industries.

Our nation's global competitiveness hinges on our ability to create the first fully STEM-literate generation and empower students with the confidence they need to pursue career opportunities that may have

once seemed out-of-reach. One key indicator determining high school graduates' pursuit of a STEM degree is their interest in STEM upon entering high school.

Endeavor is a first-of-its-kind interactive program designed for middle school students—where the ground for STEM literacy and career exploration is most fertile. Learners engage with interactive content that reinforces key STEM skills while exploring exciting STEM careers that await.

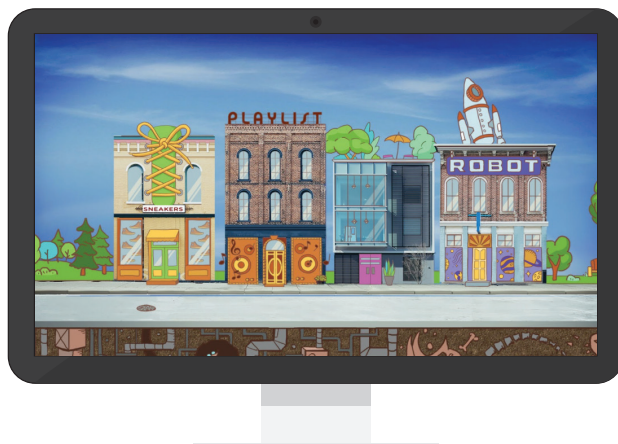
Course Highlights

- ▶ Interactive activities that reinforce critical STEM topics
- ▶ Insight into their own skills, interests, and aptitudes, and how they might connect to exciting STEM careers
- ▶ Scaffolded hints and just-in-time instruction provide targeted feedback to learners
- ▶ Personalized takeaway with learner interests, skills, aptitudes, and relevant careers

Career Connections

Learners connect their skills and interests to a variety of in-demand STEM careers.

- ▶ Mechanical Engineer
- ▶ Logistics Manager
- ▶ Digital Product Designer
- ▶ Machinist
- ▶ Hardware Technician
- ▶ Graphic Designer



Grade Level Fit: 6-9

Total Program Time: 1.5-2 hours

Subject Fit: Career Technical Education

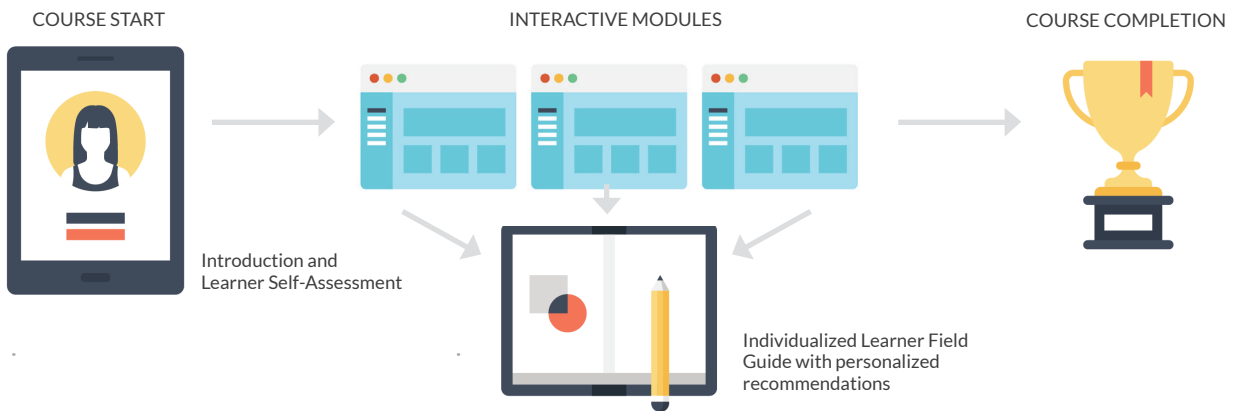
Standards Alignment: Common Career Technical Core (CCTC), Next Generation Science Standards (NGSS), Common Core State Standards (CCSS), State Standards

Pedagogy Frameworks:

Universal Design for Learning (UDL)

Teaching for Understanding (TFU)

Course Flow



Topics Covered



The Careers
Powering STEM
Industries



Big Data and the
Internet of Things



The Future of
Manufacturing and
Design

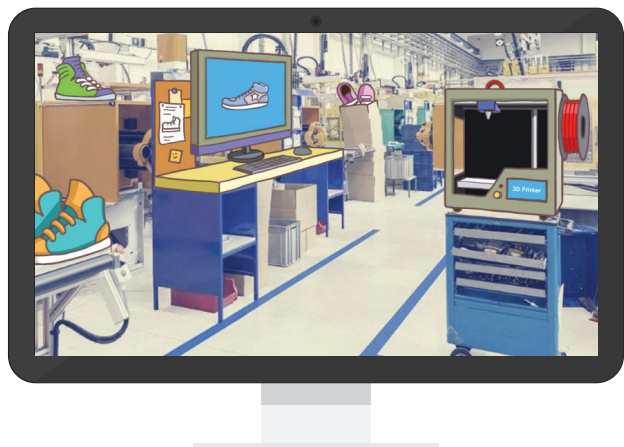


The Algorithms Behind
Recommendations

Featured Activity

The Future of Manufacturing

Sophisticated manufacturing technologies are shaping the way we design and build new products. In this activity, learners will explore the design process and topics in material science as they design and “3D print” a custom sneaker. Through experimenting with different material options and calibrating printer settings, learners will gain critical exposure to the topics and careers that are defining the future of manufacturing.



To learn more about the Endeavor platform, visit everfi.com/endeavor