**Student Outcomes in STEM Education**

**Early Learning**
- Hands-on exploratory STEM activities in preschool and daycare sites
- English and Social Studies units integrate STEM learning
- Computer Science & Technology are tied to other content areas to solve real problems & develop skills that cut across disciplines (engineering, arts/media, social sciences, math, science, etc.).
- STEM kits for parents and kids to do at home
- After school and out-of-school STEM experiences for underserved students

**Elementary**
- DOING* science and engineering in school
- Other opportunities: STEM classes, Pre-CTE classes, Makerspaces, etc.
- Hands-on math connected to real-world problems

**Middle**
- Science classes with real-world applied engineering projects
- Other opportunities: STEM classes, Pre-CTE classes, Makerspaces, etc.
- Hands-on math connected to real-world problems

**High**
- Science classes (physics, chem, bio) with real-world applied engineering projects and career connections
- CTE programs: Computer Science, Automotive, Welding, Engineering, Healthcare, etc.
- Internships/job shadows, etc.

**Post-Secondary**
- 2-year, 4-year, masters+, apprenticeship programs leading to success in Oregon's high wage, high demand jobs
- Work-ready to compete & succeed in Oregon's high wage, high demand jobs
- Internships/job shadows, etc.

**STEM builds student competencies in:** critical thinking & problem solving, reasoning & argumentation, creativity & innovation, personal & social responsibility, continuous learning & self-direction, perseverance & adaptability, collaboration & teamwork, and other workplace skills.

\[\text{DOING}^* = \text{Investigating, Building Models, Engineering Design, etc.}\]
\[\text{STEM} = \text{Science, Technology, Engineering & Math}\]
\[\text{CTE} = \text{Career & Technical Education}\]