



Course resumes showcase the technical skills students obtain in each PLTW course. Each resume outlines the computational skills, analytical skills, and knowledge acquired in the course. Course resumes also detail student experience with tools, software, lab work, and engineering design. The detailed skills listed within course resumes illustrate the immediate, applicable contributions that students can make within a workplace.

Professional Skills

- Teamwork, group collaboration, and conflict resolution
- Problem solving
- Verbal and written communication
- Critical and creative thinking
- Ethical reasoning and mindset

Engagement Experiences

- Exploration of Algebra 1 concepts through the lens of various careers
- Application of Algebra 1 concepts in the context of real-world, relatable experiences
- Engaging with interactive curriculum through exploration and observation
- Using models and simulations
- Creating and interpreting graphs and visual representations
- Leveraging computational solutions

Mathematical Practices

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.

Course Knowledge

- Numbers and Quantities
- Equations
- Inequalities
- Polynomials
- Building functions
- Interpreting functions
- Analyzing functions using different representations
- Linear, quadratic, and exponential models
- Statistics & Data Analysis