

Unit: Experimentation and Development	Concept: Quality Control
<p>Standard</p> <ul style="list-style-type: none"> 3.5.9-12.QQ Implement quality control as a planned process to ensure that a product, service, or system meets established criteria. 	
<p>Key Learning</p> <ul style="list-style-type: none"> (LTTG) Students will be able to employ hands-on problem solving, i.e., designing, making/building, producing, and evaluating outcomes. 	<p>Unit Essential Question</p> <ul style="list-style-type: none"> How can I employ hands-on problem solving, i.e., designing, making/building, producing, and evaluating outcomes?
<p>Essential Question</p> <ul style="list-style-type: none"> How are various resources used in technology and engineering activities? 	
<p>Key Vocabulary</p> <ul style="list-style-type: none"> Quality Control, Planned Process, and Criteria 	
<p>Learning Experience</p> <ul style="list-style-type: none"> Students who demonstrate understanding can implement quality control as a planned process to ensure that a product, service, or system meets established criteria. Clarifying Statement: Quality control is concerned with how well a product, service, or system conforms to specifications and tolerances required by the design. For example, a set of rigorous international standards has been established to help companies systematically increase the quality of their products and operations. 	
<p>(Big Idea) Technology & Engineering Curriculum Framework Big Ideas</p> <ul style="list-style-type: none"> Technology and engineering activities require resources. 	
<p>(SEP) Science and Engineering Practices</p> <ul style="list-style-type: none"> Planning and Carrying Out Investigations - Plan and conduct an investigation or test a design solution in a safe and ethical manner including considerations of environmental, social, and personal impacts. 	
<p>(DCI) Disciplinary Core Ideas</p> <ul style="list-style-type: none"> HS-ESS3-4 - Evaluate or refine a technological solution that reduces impacts of human activities on natural systems. 	
<p>(TEP) Technology and Engineering Practices</p> <ul style="list-style-type: none"> Making and Doing - Demonstrates the ability to regulate and improve making and doing skills. Optimism - Shows persistence in addressing technological problems and finding solutions to those problems. 	
<p>Terms</p>	

- (ETS) Engineering, Technology, and Applications of Science – Standards applicable across the Science, Environmental Literacy & Sustainability, and Technology & Engineering content areas.
- (LTTG) PDE Technology & Engineering Long Term Transfer Goals
- (Learning Experience) A learning experience refers to any interaction, activity, or other experience in which students acquire new understanding, knowledge, behaviors, or skills.
- (Big Idea #) PDE Technology & Engineering Curriculum Framework Big Ideas
- (SEP) PDE Science and Engineering Practices
- (DCI) PDE Disciplinary Core Ideas
- (TEP) PDE Technology and Engineering Practices