### Grades 3–5

**3.5.3-5.D Technology and Engineering: Impacts of Technology**

**Students who demonstrate understanding can** predict how certain aspects of their daily lives would be different without given technologies.

**Clarifying Statement:** Historical examples of daily life before modern technologies such as airplanes, computers, modern agriculture, sanitation, and so on will give students opportunities to consider how their lives have been impacted by technology.

**Assessment Boundary:** N/A

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<tr>
<td>Obtaining, Evaluating, and Communicating Information</td>
<td>ETS1.A: Defining and Delimiting Engineering Problems</td>
<td>Critical Thinking</td>
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<tr>
<td>Obtaining, evaluating, and communicating information in 3–5 builds on K–2 experiences and progresses to evaluating the merit and accuracy of ideas and methods.</td>
<td>Possible solutions to a problem are limited by available materials and resources (constraints). The success of a designed solution is determined by considering the desired features of a solution (criteria). Different proposals for solutions can be compared on the basis of how well each one meets the specified criteria for success or how well each takes the constraints into account.</td>
<td>• Knows how to find answers to technological questions.</td>
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<td>• Read and comprehend grade-appropriate complex texts and/or other reliable media to summarize and obtain scientific and technical ideas and describe how they are supported by evidence.</td>
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**Pennsylvania Context:** Examples of Pennsylvania context include but are not limited to Pennsylvania’s food production industries.

**Pennsylvania Career Ready Skills:** Identify one’s own strengths, needs, and preferences.
<table>
<thead>
<tr>
<th>Standard Source</th>
<th>Possible Connections to Other Standard(s) or Practice(s)</th>
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| PA Core Standards: Reading and Writing in Science and Technical Areas | CC.1.2.3.G: Use information gained from text features to demonstrate understanding of a text.  
CC.1.2.4.G: Interpret various presentations of information within a text or digital source and explain how the information contributes to an understanding of text in which it appears.  
CC.1.2.5.G: Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.  
CC.1.4.3.V: Conduct short research projects that build knowledge about a topic.  
CC.1.4.4.V: Conduct short research projects that build knowledge through investigation of different aspects of a topic.  
CC.1.4.5.V: Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic.  
CC.1.4.3.W: Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories.  
CC.1.4.4.W: Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources.  
CC.1.4.5.W: Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources. |
| PA Core Standards and Practices: Math                | MP.2: Reason abstractly and quantitatively.  
MP.4: Model with mathematics  
MP.5: Use appropriate tools strategically.                                                                                                                                                                                                     |
| Science, Technology & Engineering, and Environmental Literacy & Sustainability Academic Standards | 3.3.3.C: Make a claim supported by evidence about the merit of a design solution that reduces the impacts of a weather-related hazard.                                                                                                                                 |