### Grades 3–5

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

Students who demonstrate understanding can classify resources used to create technologies as either renewable or nonrenewable.

**Clarifying Statement:** An introduction to material resources and how they are recovered will help students understand the concept of renewability and its importance and can be tied to concepts they learn in science.

**Assessment Boundary:** N/A

|----------------------------------------|------------------------------|------------------------------------------|
| **Obtaining, Evaluating, and Communicating Information** | **ESS3.A**
Energy and fuels that humans use are derived from natural sources, and their use affects the environment in multiple ways. Some resources are renewable over time, and others are not. | **Critical Thinking**
- Knows how to find answers to technological questions. |
| Obtain and combine information from books and/or other reliable media to explain phenomena or solutions to a design problem. | |

**Pennsylvania Context:** Examples of Pennsylvania context include but are not limited to robotic industries and agriculture industries.

**Pennsylvania Career Ready Skills:** Identify consequences of a decision to oneself and others prior to action.
<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 | N/A |