Science, Technology & Engineering, and Environment Literacy & Sustainability (STEELS)

**Grades K–2**


**Students who demonstrate understanding can safely use tools to complete tasks.**

**Clarifying Statement:** Many tools have specific functions and selecting the right tool makes the task easier. People use tools to make objects, to achieve a desired outcome, and to communicate. Children use scissors to cut paper, glue sticks to fasten components together, markers to sketch ideas, and computers to search for information.

**Assessment Boundary:** N/A

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<tr>
<td><strong>Constructing Explanations and Designing Solutions</strong></td>
<td>N/A</td>
<td>Making and Doing</td>
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<td>• Constructing explanations and designing solutions in K–2 builds on prior experiences and progresses to the use of evidence and ideas in constructing evidence-based accounts of natural phenomena and designing solutions.</td>
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<td>• Learns to use tools and materials to accomplish a task.</td>
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<td>• Use tools and/or materials to design and/or build a device that solves a specific problem or a solution to a specific problem.</td>
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**Pennsylvania Context:** N/A

**Pennsylvania Career Ready Skills:** Identify consequences of a decision to oneself and others prior to action.

**Connections to Other Standards Content and Practices**

<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.1.4.K.U: With guidance and support, explore a variety of digital tools to produce and publish writing or in collaboration with peers.  
CC.1.4.1-2.U: With guidance and support, use a variety of digital tools to produce and publish writing including in collaboration with peers.  
CC.1.4.K.V: Participate in individual or shared research projects on a topic of interest.  
CC.1.4.1-2.V: Participate in individual or shared research and writing projects.  
CC.1.4.K-1.W: With guidance and support, recall information from experiences or gather information from provided sources to answer a question.  
CC.1.4.2.W: Recall information from experiences or gather information from provided sources to answer a question.  
| **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 |