

Grades K-2

3.5.K-2.X Technology and Engineering: Core Concepts of Technology and Engineering

Students who demonstrate understanding can develop a plan in order to complete a task.

Clarifying Statement: For example, young children learn that if they want to accomplish something, such as design and make a birthday card for a parent, they must have the materials available, and they must have the card ready by a given date.

Assessment Boundary: N/A

Asking Questions and Defining Problems Asking questions and defining problems in K–2 builds on prior experiences and progresses to simple descriptive questions that can be tested Developing Possible Solutions • Designs can be conveyed through sketches, drawings, or physical models. These ideas. The proposition of the problems of the problems of the problems in K–2 ideas.	Science and Engineering Practices (SEP)	Disciplinary Core Ideas (DCI)	Technology and Engineering Practices (TEP)
 Define a simple problem that can be solved through the development of a new or improved ideas for a problem's solutions to other people. 	Asking questions and defining problems in K–2 builds on prior experiences and progresses to simple descriptive questions that can be tested. • Define a simple problem that can be solved	Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating	Learns to share technological products and

Pennsylvania Context: N/A

Pennsylvania Career Ready Skills: Distinguish among and set short-term, mid-range, and long-term goals.

Connections to Other Standards Content and Practices

Standard Source	Possible Connections to Other Standard(s) or Practice(s)
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. CC.1.5.K-2.A: Participate in collaborative conversations with peers and adults in small and larger groups.
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 Environment Literacy & Sustainability (STEELS)



Science, Technology &	N/A
Engineering, and	
Environmental Literacy &	
Sustainability Academic	
Standards	
	Engineering, and Environmental Literacy & Sustainability Academic