**2020 STEL Benchmarks at PreK-2 Grade Band 5/7/2020**

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| Grade Band | **STEL Benchmark** |
|  | **STEL 1 Nature and Characteristics of Technology and Engineering** |
| Pre-K-2 | **1A.** Compare the natural world and human-made world. |
| Pre-K-2 | **1B.** Explain the tools and techniques that people use to help them do things. |
| Pre-K-2 | **1C.** Demonstrate that creating can be done by anyone. |
| Pre-K-2 | **1D.** Discuss the roles of scientists, engineers, technologists and others who work with technology. |
|  | **STEL 2 Core Concepts of Technology and Engineering** |
| Pre-K-2 | **2A.** Illustrate how systems have parts or components that work together to accomplish a goal. |
| Pre-K-2 | **2B.** Safely use tools to complete tasks. |
| Pre-K-2 | **2C.** Explain that materials are selected for use because they possess desirable properties and characteristics. |
| Pre-K-2 | **2D.** Develop a plan in order to complete a task. |
| Pre-K-2 | **2E.** Collaborate effectively as a member of a team. |
|  | **STEL 3 Integration of Knowledge, Technologies, and Practices** |
| Pre-K-2 | **3A.** Apply concepts and skills from technology and engineering activities that reinforce concepts and skills across multiple content areas. |
| Pre-K-2 | **3B**. Draw connections between technology and human experiences. |
|  | **STEL 4 Impacts of Technology** |
| Pre-K-2 | **4A.** Explain ways that technology helps with everyday tasks. |
| Pre-K-2 | **4B.** Illustrate helpful and harmful effects of technology. |
| Pre-K-2 | **4C.** Compare simple technologies to evaluate their impacts. |
| Pre-K-2 | **4D.** Select ways to reduce, reuse, and recycle resources in daily life. |
| Pre-K-2 | **4E.** Design new technologies that could improve their daily lives. |
|  | **STEL 5 Influence of Society on Technological Development** |
| PreK-2 | **5A.** Explain the needs and wants of individuals and societies. |
| PreK-2 | **5B.** Explore how technologies are developed to meet individual and societal needs and wants. |
| PreK-2 | **5C.** Investigate the use of technologies in the home and community. |
|  | **STEL 6 History of Technology** |
| PreK-2 | **6A.** Discuss how the way people live and work has changed throughout history because of technology. |
|  | **STEL 7 Design in Technology and Engineering Education** |
| PreK-2 | **7A.** Apply design concepts, principles, and processes through play and exploration. |
| PreK-2 | **7B.** Demonstrate that designs have requirements. |
| PreK-2 | **7C.** Explain that design is a response to wants and needs. |
| PreK-2 | **7D.** Discuss that all designs have different characteristics that can be described. |
| PreK-2 | **7E.** Illustrate that there are different solutions to a design and that none are perfect. |
| PreK-2 | **7F.** Differentiate essential skills of the technology and engineering design process. |
| PreK-2 | **7G.** Apply skills necessary for making in design. |
|  | **STEL 8 Applying, Maintaining, and Assessing Technological Products and Systems** |
| PreK-2 | **8A**. Analyze how things work. |
| PreK-2 | **8B**. Identify and use everyday symbols. |
| PreK-2 | **8C.** Describe qualities of everyday products. |