

**Learn, Apply, and Build 21<sup>st</sup> Century Skills (LAB21)**  
**Grade 6**

**LAB21.6.10 - Learn and Apply Rigorous Science, Technology, Engineering, and Mathematics Content (MD SSP 1)**

LAB21.6.10.01 - Demonstrate an understanding of Science, Technology, Engineering, and Mathematics content

LAB21.6.10.02 - Use Science, Technology, Engineering, and Mathematics content in innovative ways to develop solution to problems or construct answers to complex questions

LAB21.6.10.03 - Apply Science, Technology, Engineering, and Mathematics content to novel situations

**LAB21.6.20 - Integrate Science, Technology, Engineering, and Mathematics Content (MD SSP 2)**

LAB21.6.20.01 - Analyze interdisciplinary connections that exist within the STEM disciplines and other disciplines

LAB21.6.20.02 - Use integrated STEM content to develop solutions to problems or construct answers to complex questions

LAB21.6.20.03 - Analyze connections between STEM disciplines and career opportunities that exist in a variety of STEM fields

**LAB21.6.30 - Interpret and Communicate Information from Science, Technology, Engineering, and Mathematics (MD SSP 3)**

LAB21.6.30.01 - Identify, analyze, and synthesize appropriate Science, Technology, Engineering, and Mathematics information (text, visual, audio, etc.)

LAB21.6.30.02 - Apply appropriate academic vocabulary when responding and discussing Science, Technology, Engineering, and Mathematics content

LAB21.6.30.03 - Engage in critical reading and writing of technical information

LAB21.6.30.04 - Evaluate and integrate multiple sources of information (e.g.: quantitative data, video and multimedia) presented in diverse formats

LAB21.6.30.05 - Develop an evidence-based opinion or argument

LAB21.6.30.06 - Communicate effectively and precisely with others

**LAB21.6.40 - Engage in Inquiry (MD SSP 4)**

LAB21.6.40.01 - Ask relevant questions, gather appropriate information, refine the question, and develop new questions

LAB21.6.40.02 - Explore appropriate Science, Technology, Engineering, and Mathematics disciplines related to a real world problem or issue

**LAB21.6.50 - Engage in Logical Reasoning (MD SSP 5)**

LAB21.6.50.01 - Engage in critical thinking

LAB21.6.50.02 - Evaluate, select, and apply appropriate systematic approaches (scientific process, engineering process, and/or mathematical practices)

LAB21.6.50.03 - Apply STEM content to construct creative and innovate ideas

LAB21.6.50.04 - Analyze the impact of global issues and problems at the local, state, national, and international levels

**LAB21.6.60 - Collaborate as a STEM Team (MD SSP 6)**

LAB21.6.60.01 - Incorporate the skills of team members

LAB21.6.60.02 - Identify, analyze, and perform a STEM specific subject matter expert (SME) role

LAB21.6.60.03 - Share ideas and work effectively with the STEM team to achieve a common goal

LAB21.6.60.04 - Listen and be receptive to ideas of others

LAB21.6.60.05 - Analyze career opportunities that exist in STEM fields

**LAB21.6.70 - Apply Technology Strategically (MD SSP 7)**

LAB21.6.70.01 - Identify technologies needed to develop solutions to problems or construct answers to complex questions

LAB21.6.70.02 - Analyze the limits and impacts of technology

LAB21.6.70.03 - Engage in responsible/ethical use of technology

LAB21.6.70.04 - Improve or create new technologies that extend human capability