NAME: <u>MEGAN STAMER</u>

CONTENT AREA: TECHNOLOGY

GRADE LEVEL: 5-8TH GRADE

Standard 8.1 Educational Technology: All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.

Strand A. Technology Operations and Concepts

8.1.5.A.1 Understand and use technology systems
- Select and use the appropriate digital tools and resources to accomplish a variety of tasks including solving problems.

8.1.5.A.2 Select and use application effectively and productively
- Format a document using a word processing application to enhance text and include graphics, symbols and/or pictures.

8.1.5.A.3 Select and use application effectively and productively
- Use a graphic organizer to organize information about problem or issue.

8.1.5.A.5 Select and use application effectively and productively
- Create and use a database to answer basic questions.

Strand B. Creativity and Innovation

Strand C. Communication and Collaboration

8.1.5.C.1 Communicate information and ideas to multiple audiences using a variety of media and formats
- Engage in online discussions with learners of other cultures to investigate a worldwide issue from multiple perspectives and sources,

evaluate findings and present possible solutions, using digital tools and online resources for all steps.

Strand D. Digital Citizenship

8.1.5.D.2 Advocate and practice safe, legal, and responsible use of information and technology

- Analyze the resource citations in online materials for proper use.

8.1.5.D.3 Demonstrate personal responsibility for lifelong learning

- Demonstrate an understanding of the need to practice cyber safety, cyber security, and cyber ethics when using technologies and social media.

8.1.5.D.4 Exhibit leadership for digital citizenship

- Understand digital citizenship and demonstrate an understanding of the personal consequences of inappropriate use of technology and social media.

Strand E. Research and Information Literacy

8.1.5.E.1 Plan strategies to guide inquiry. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media. Evaluate and select information sources and digital tools based on the appropriateness for specific tasks.

- Use digital tools to research and evaluate the accuracy of, relevance to, and appropriateness of using print and non-print electronic information sources to complete a variety of tasks.

Strand F. Critical Thinking, Problem Solving, and Decision-Making

8.1.5.F.1 Identify and define authentic problems and significant questions for

investigation. Plan and manage activities to develop a solution or complete a project. Collect and analyze data to identify solutions and/or make informed decisions. Use multiple processes and diverse perspectives to explore alternative solutions.

- Apply digital tools to collect, organize, and analyze data that support a scientific finding.

8.2 Technology Education, Engineering, and Design: All students will develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world, as they relate to the individual, global society, and the environment.

Strand A. Nature of Technology: Creativity and Innovation

Strand B. Design: Critical Thinking, Problem Solving, and Decision-Making

Strand C. Technological Citizenship, Ethics, and Society

8.2.5.C.1 The attributes of design

- Collaborate with peers to illustrate components of a designed system.

Strand D. Research and Information Fluency

Strand E. Communication and Collaboration

Strand F. Resources for a Technological World

Strand G. The Designed World