

Ellsworth Community School District
Reporting Rubric for Technology & Engineering Education
Middle School

Standard 1: Safely operates appropriate tools or machines to complete given tasks.

<i>Advanced</i>	<i>Proficient</i>	<i>Developing</i>	<i>Beginning</i>
Operates at the highest efficiency rate. Manipulates the tools and resources to produce a product with the least amount of waste in time and/or resources, while demonstrating the tools' full capability.	Adapts and employs various tool options to solve a problem or construct a product.	Manipulates and adjusts the tool and its adjustments functions to apply the tool in any project setting.	Identifies the tool and its functions. Demonstrates safe use of the tool.

- Introduction to Engineering 5
- Introduction to Robotics 6
- Communication 7

- Exploring Industrial Design 7
- Introduction to Digital Technology 8
- Introduction to Mechanical Technology 8

Standard 2: Identifies a problem, develops, and applies a successful solution to the problem.

<i>Advanced</i>	<i>Proficient</i>	<i>Developing</i>	<i>Beginning</i>
Employs innovation and invention in problem solving and solutions	Analyzes and interprets data results. Subsequently designs a solution or alternative solutions to resolve the problem	Creates and implements a solution to solve a problem	Identifies problem and understands the method or model used for solving a problem.

- Communication 7
- Exploring Industrial Design 7

- Introduction to Digital Technology 8
- Introduction to Mechanical Technology 8

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Standard 3: Analyzes the effectiveness of systems and adjusts as needed.

<i>Advanced</i>	<i>Proficient</i>	<i>Developing</i>	<i>Beginning</i>
Designs, organizes, manages system(s) and is able to create desirable outcomes	Manipulates a system to generate appropriate and desired outcomes with respect to completed tasks and/or products	Works within a system to generate products and complete tasks	Identifies the processes within given systems

- Introduction to Engineering 5
- Introduction to Robotics 6

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Standard 4: Analyzes technical directions and methods to complete given tasks.

<i>Advanced</i>	<i>Proficient</i>	<i>Developing</i>	<i>Beginning</i>
Evaluates the technical directions and adjusts tools/processes for maximum efficiency and safety	Develops project components from directions and has a successful example of a completed project/task	Interpret and understands directions to complete task and/or project	Demonstrates proper skills by following directions to complete a task

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- Introduction to Robotics 6

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Standard 5: Draws upon evidence to support analysis, reflection and research.

<i>Advanced</i>	<i>Proficient</i>	<i>Developing</i>	<i>Beginning</i>
Uses multiple forms of the most effective evidence to create an influential presentation to support claims	Uses appropriate information to support conclusions and creates a presentation of evidence	Uses relevant evidences to support claims	Uses evidence to make an argument and support conclusions.

- Exploring Industrial Design 7

- Introduction to Digital Technology 8

Standard 5: Works collaboratively with others.

<i>Advanced</i>	<i>Proficient</i>	<i>Developing</i>	<i>Beginning</i>
Uses Positive and respectful language and other forms of communication to communicate with another individual or a small group	Uses positive and respectful language to communicate with another individual or a small group	Uses respectful language to communicate with another individual or a small group	Uses language to communicate with another individual or a small group

- Introduction to Engineering 5
- Introduction to Robotics 6

- Exploring Industrial Design 7
- Introduction to Mechanical Technology 8