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CW Middle School

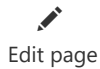
Tech. Ed. 8

1. What is Technology (2 days) (12.50%)

Learning Targets

1.1 I can understand and explain 5 examples of what is and what is not Technology

Learning Target	Descriptor	Definition
4	Proficient	I can understand and explain 5 examples of what is and what is not Technology
3	Developing	I can understand and explain 4 examples of what is and what is not Technology
2	Basic	I can understand and explain 3 examples of what is and what is not Technology
1	Minimal	I can understand and explain 2 examples of what is and what is not Technology
0	No Evidence	No evidence shown.



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2. Problem Solving (5 days) (12.50%)

Learning Targets

2.1 I can describe the 8 steps in Engineering based problem solving.

Learning Target	Descriptor	Definition
4	Proficient	I can describe the 8 steps in Engineering based problem solving.
3	Developing	I can describe the 7 of 8 steps in Engineering based problem solving.
2	Basic	I can describe the 6 of 8 steps in Engineering based problem solving.
1	Minimal	I can describe the 5 of 8 steps in Engineering based problem solving.
0	No Evidence	No evidence shown.

2.2 I can recognize and solve a problem in my personal environment by using the Engineers problem solving method.

Learning Target	Descriptor	Definition
4	Proficient	I can recognize and solve a problem in my personal environment by using the Engineers problem solving method.
3	Developing	I can recognize and solve a problem in my personal environment but not use the Engineers problem solving method.
2	Basic	I can recognize and but not solve a problem in my personal environment by using the Engineers problem solving method
1	Minimal	I cannot recognize nor solve a problem in my personal environment but can use the Engineers problem solving method
0	No Evidence	No evidence shown.



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3. Computer Design Introduction (12.50%)

Learning Targets

3.1 I can effectively operate basic Mechanical CAD tools to visualize a 3D object

Learning Target	Descriptor	Definition
4	Proficient	I can effectively operate basic Mechanical CAD tools to visualize a 3D object
3	Developing	I can operate most basic Mechanical CAD tools to visualize a 3D object
2	Basic	I can operate some basic Mechanical CAD tools to visualize a 3D object
1	Minimal	I can operate a few basic Mechanical CAD tools to visualize a 3D object
0	No Evidence	No evidence shown.

3.2 I can effectively use CAD to have accurate parts made for evaluation.

Learning Target	Descriptor	Definition
4	Proficient	I can effectively use CAD to have accurate parts made for evaluation.
3	Developing	I can use CAD to have parts made but with some error.
2	Basic	I can use CAD to have parts made but with error + or - .0625
1	Minimal	I can use CAD to have parts made but with error + or - .125
0	No Evidence	No evidence shown.

3.3 I can effectively operate basic Architectural CAD tools to visualize a building.

Learning Target	Descriptor	Definition
4	Proficient	I can effectively operate basic Architectural CAD tools to visualize a building.
3	Developing	I can operate most basic Architectural CAD tools to visualize a building.
2	Basic	I can operate some basic Architectural CAD tools to visualize a building.
1	Minimal	I can operate a few basic Architectural CAD tools to visualize a building.
0	No Evidence	No evidence shown.



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4. Robot Programming and Circuits (15 days) (12.50%)

Learning Targets

4.1 I can build and accurately predict an outcome when a circuit is electrified.

Learning Target	Descriptor	Definition
4	Proficient	I can build and accurately predict an outcome when a circuit is electrified.
3	Developing	I can build and generally predict an outcome when a circuit is electrified.
2	Basic	I can build but not predict an outcome when a circuit is electrified.
1	Minimal	I can predict an outcome based on a given circuit.
0	No Evidence	No evidence shown.

4.2 I can construct a robotic device and accurately control all of its functions.

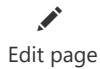
Learning Target	Descriptor	Definition
4	Proficient	I can construct a robotic device and accurately control all of its functions.
3	Developing	I can construct a robotic device and accurately control some of its functions.
2	Basic	I can construct a robotic device and accurately control 50% of its functions.
1	Minimal	I can construct a robotic device and accurately control 25% of its functions.
0	No Evidence	No evidence shown.

5. 3D Printing and Laser Cutting Production (12.50%)

Learning Targets

5.1 I can Independently Output a CAD model to a physical model

Learning Target	Descriptor	Definition
4	Proficient	I can Independently Output a CAD model to a physical model
3	Developing	I can Output a CAD model to a 3d Print and Laser Cut model but with Instructor help
2	Basic	I can Independantly Output a CAD model to a 3d Print Or a Laser Cut model.
1	Minimal	I can Output a CAD model to a 3d Print or a Laser Cut model but with Instructor help
0	No Evidence	No evidence shown.



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6. Woodworking Lab Safety (5 days) (12.50%)

Learning Targets

6.1 I can operate all basic power tools properly and safely.

Learning Target	Descriptor	Definition
4	Proficient	I can operate all basic power tools properly and safely.
3	Developing	I can operate most basic power tools properly and safely.
2	Basic	I can operate some basic power tools properly and safely.
1	Minimal	I can operate a few basic power tools properly and safely.
0	No Evidence	No evidence shown.

7. CO2 Cars (10 days) (12.50%)


Learning Targets

7.1 I can demonstrate basic use and understanding of aerodynamics

Learning Target	Descriptor	Definition
4	Proficient	I can demonstrate basic use and understanding of aerodynamics
3	Developing	I can demonstrate many uses and understanding of aerodynamics
2	Basic	I can demonstrate some use and understanding of aerodynamics
1	Minimal	I can demonstrate a few uses and understanding of aerodynamics
0	No Evidence	No evidence shown.

7.2 I can fully predict an outcome based on aerodynamics, mass, and friction.

Learning Target	Descriptor	Definition
4	Proficient	I can fully predict an outcome based on aerodynamics, mass, and friction.
3	Developing	I can predict an outcome based on aerodynamics, mass, and friction.
2	Basic	I can partially predict an outcome based on aerodynamics, mass, and friction.
1	Minimal	I can barely predict an outcome based on aerodynamics, mass, and friction.
0	No Evidence	No evidence shown.



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8. Welding Introduction (12.50%)

Learning Targets

8.1 I can operate basic welding equipment safely to achieve a recognizable design.

Learning Target	Descriptor	Definition
4	Proficient	I can operate basic welding equipment safely to achieve a recognizable design.
3	Developing	I can operate basic welding equipment safely to achieve a design.
2	Basic	I can operate basic welding equipment safely to achieve a random design.
1	Minimal	I can operate basic welding equipment safely but not achieve a design.
0	No Evidence	No evidence shown.

Submitted on 6/21/2021 by