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Edit page

CW High School
Small Engines & Basic Auto

1. **Classifications of common engines**   (7.14%)

   Learning Targets

   1.1 **I can identify four of the major characteristics differentiating small engines.**

Learning Target	Descriptor	Definition
4	Proficient	I can identify four of the major characteristics differentiating small engines.
3	Developing	I can identify three of the major characteristics differentiating small engines.
2	Basic	I can identify two of the major characteristics differentiating small engines.
1	Minimal	I can identify one major characteristics differentiating small engines.
0	No Evidence	No evidence shown.

   1.2 **I can compare and contrast four characteristics of two stroke vs. four stroke engines.**

Learning Target	Descriptor	Definition
4	Proficient	I can compare and contrast four characteristics of two stroke vs. four stroke engines.
3	Developing	I can compare and contrast three characteristics of two stroke vs. four stroke engines.
2	Basic	I can compare and contrast two characteristics of two stroke vs. four stroke engines.
1	Minimal	I can compare and contrast one characteristics of two stroke vs. four stroke engines.
0	No Evidence	No evidence shown.

✏
Edit page

CW High School
Small Engines & Basic Auto

2. **Small Engine Construction and Specifications** (7.14%)

Learning Targets

2.1 **I can identify four of the major systems of an internal combustion engine.**

Learning Target	Descriptor	Definition
4	Proficient	I can identify four of the major systems of an internal combustion engine.
3	Developing	I can identify three of the major systems of an internal combustion engine.
2	Basic	I can identify two of the major systems of an internal combustion engine.
1	Minimal	I can identify one of the major systems of an internal combustion engine.
0	No Evidence	No evidence shown.

2.2 **I can name and distinguish the four piston positions in the 4-strokes of an internal combustion engine.**

Learning Target	Descriptor	Definition
4	Proficient	I can name and distinguish the four piston positions in the 4-strokes of an internal combustion engine.
3	Developing	I can name and distinguish three piston positions in the 4-strokes of an internal combustion engine.
2	Basic	I can name and distinguish two piston positions in the 4-strokes of an internal combustion engine.
1	Minimal	I can name and distinguish one piston position in the 4-strokes of an internal combustion engine.
0	No Evidence	No evidence shown.

2.3 **I can identify all of the major parts of a typical small engine, their function and what they might be connected to**

Learning Target	Descriptor	Definition
4	Proficient	I can identify all of the major parts of a typical small engine, their function and what they might be connected to
3	Developing	I can identify most of the major parts of a typical small engine, their function and what they might be connected to
2	Basic	I can identify some of the major parts of a typical small engine, their function and what they might be connected to
1	Minimal	I can identify some of the major parts of a typical small engine, their function and what they might be connected to
0	No Evidence	No evidence shown.

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CW High School
Small Engines & Basic Auto

3. **Lab Policies, Safety and Tools (3 days) (7.14%)**

Learning Targets

3.1 **I can recognize all common hand tools, understand their use and demonstrate proper use.**

Learning Target	Descriptor	Definition
4	Proficient	I can recognize all common hand tools, understand their use and demonstrate proper use.
3	Developing	I can recognize most common hand tools, understand their use and demonstrate proper use.
2	Basic	I can recognize some common hand tools, understand their use and demonstrate proper use.
1	Minimal	I can recognize a few common hand tools, understand their use and demonstrate proper use.
0	No Evidence	No evidence shown.

3.2 **I can recognize all stationary equipment in Chetek, understand their use and demonstrate proper use.**

Learning Target	Descriptor	Definition
4	Proficient	I can recognize all stationary equipment in Chetek, understand their use and demonstrate proper use.
3	Developing	I can recognize most stationary equipment in Chetek, understand their use and demonstrate proper use.
2	Basic	I can recognize some stationary equipment in Chetek, understand their use and demonstrate proper use.
1	Minimal	I can recognize a few pieces of stationary equipment in Chetek, understand their use and demonstrate proper use.
0	No Evidence	No evidence shown.

✎
Edit page

CW High School

Small Engines & Basic Auto

4. Small Engine Electrical Specifications (5 days) (7.14%)

Learning Targets

4.1 I can identify the electrical parts of an internal combustion engine and describe their function.

Learning Target	Descriptor	Definition
4	Proficient	I can identify the electrical parts of an internal combustion engine and describe their function.
3	Developing	I can identify the electrical parts of an internal combustion engine but describe the function of a few
2	Basic	I can identify some of the electrical parts of an internal combustion engine and only describe the function of a few
1	Minimal	I can identify a few of the electrical parts of an internal combustion engine and not be able to describe their function.
0	No Evidence	No evidence shown.

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Small Engines & Basic Auto
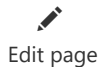
5. Small Engine carburetion (6 days) (7.14%)

Learning Targets

5.1 I can identify the major parts of a carburetor and describe their function.

Learning Target	Descriptor	Definition
4	Proficient	I can identify the major parts of a carburetor and describe their function.
3	Developing	I can identify the major parts of a carburetor but only describe the function of a few.
2	Basic	I can identify some of the major parts of a carburetor but only describe the function of a few. I can identify a few of the major parts of a carburetor and not be able to describe their function.
1	Minimal	I can identify a few of the major parts of a carburetor and not be able to describe their function.
0	No Evidence	No evidence shown.

5.2 I can disassemble and reconstruct a carburetor.

Learning Target	Descriptor	Definition
4	Proficient	I can disassemble and reconstruct a carburetor.
3	Developing	I can disassemble but only partial reconstruct a carburetor.
2	Basic	I can disassemble most parts and only partial reconstruct a carburetor.
1	Minimal	I can disassemble some parts but cannot reconstruct a carburetor.
0	No Evidence	No evidence shown.

✏️
Edit page

CW High School
Small Engines & Basic Auto

6. Small Engine Valve Specifications   (7.14%)

Learning Targets

6.1 I can recognize all parts of and explain the function of a valve train.

Learning Target	Descriptor	Definition
4	Proficient	I can recognize all parts of and explain the function of a valve train.
3	Developing	I can recognize parts of but can only partially explain the function of a valve train.
2	Basic	I can recognize some parts of but can only partially explain the function of a valve train.
1	Minimal	I can recognize a few parts of a valve train and cannot explain the function of a valve train.
0	No Evidence	No evidence shown.

6.2 I can install and set specifications within a manufacturer's tolerance in a valve train.

Learning Target	Descriptor	Definition
4	Proficient	I can install and set specifications within a manufacturer's tolerance in a valve train.
3	Developing	I can install all parts and set specifications but outside of a manufacturers tolerance by .005 in a valve train.
2	Basic	I can install most parts but cannot set specifications.
1	Minimal	I can install a few parts but cannot set specifications.
0	No Evidence	No evidence shown.

✏️
Edit page

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Small Engines & Basic Auto

7. Small Engine Fasteners (6 days) (7.14%)

Learning Targets

7.1 I can identify all the various fasteners used in a small engine.

Learning Target	Descriptor	Definition
4	Proficient	I can identify all the various fasteners used in a small engine.
3	Developing	I can identify most of the various fasteners used in a small engine.
2	Basic	I can identify some of the various fasteners used in a small engine.
1	Minimal	I can identify a few of the various fasteners used in a small engine.
0	No Evidence	No evidence shown.

7.2 I can find and apply torque settings for all variety of fasteners in a small engine

Learning Target	Descriptor	Definition
4	Proficient	I can find and apply torque settings for all variety of fasteners in a small engine
3	Developing	I can find and apply most torque settings for fasteners in a small engine.
2	Basic	I can find and apply some torque settings for fasteners in a small engine.
1	Minimal	I can find but not apply torque settings for fasteners in a small engine.
0	No Evidence	No evidence shown.

8. Oil and Cooling (7.14%)

Learning Targets

8.1 I can describe at least 5 functions of oil and cooling in a small engine.

Learning Target	Descriptor	Definition
4	Proficient	I can describe at least 5 functions of oil and cooling in a small engine.
3	Developing	I can describe at least 4 functions of oil and cooling in a small engine.
2	Basic	I can describe at least 3 functions of oil and cooling in a small engine.
1	Minimal	I can describe at least 2 functions of oil and cooling in a small engine.
0	No Evidence	No evidence shown.

✏️
Edit page

CW High School
Small Engines & Basic Auto

9. Small Engine Crankcase Components (4 days) (7.14%)

Learning Targets

9.1 I can recognize and explain the functions of the four major crankcase components in a small engine.

Learning Target	Descriptor	Definition
4	Proficient	I can recognize and explain the functions of the four major crankcase components in a small engine.
3	Developing	I can recognize and explain the functions of three major crankcase components in a small engine.
2	Basic	I can recognize and explain the functions of two major crankcase components in a small engine.
1	Minimal	I can recognize and explain the functions of only one major crankcase components in a small engine.
0	No Evidence	No evidence shown.

10.   Small Engine Assembly and Trouble shooting (5 days) (7.14%)

Learning Targets

10.1 I can assemble a small engine and allow it to run independently for 1 minute.

Learning Target	Descriptor	Definition
4	Proficient	I can assemble a small engine and allow it to run independently for 1 minute.
3	Developing	I can assemble a small engine and allow it to run but not without assistance from an operator for 1 minute.
2	Basic	I can assemble a small engine but it will not start.
1	Minimal	I cannot assemble a complete small engine which will not start or run.
0	No Evidence	No evidence shown.

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Edit page

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Small Engines & Basic Auto

11. New Technologies in Transportation (3 days) (7.14%)

Learning Targets

11.1 I can describe advantages and disadvantages in new and emerging transportation technologies.
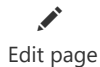
Learning Target	Descriptor	Definition
4	Proficient	I can describe advantages and disadvantages in new and emerging transportation technologies.
3	Developing	I can describe advantages or disadvantages in new and emerging transportation technologies.
2	Basic	I can describe advantages but not disadvantages in new and emerging transportation technologies.
1	Minimal	I can describe disadvantages but not advantages in new and emerging transportation technologies.
0	No Evidence	No evidence shown.

12. The Automobile (5 days) (7.14%)

Learning Targets

12.1 I can identify and conclude the purpose of the four major automotive systems.

Learning Target	Descriptor	Definition
4	Proficient	I can identify and conclude the purpose of the four major automotive systems.
3	Developing	I can identify and conclude the purpose of three major automotive systems.
2	Basic	I can identify and conclude the purpose of two major automotive systems.
1	Minimal	I can identify and conclude the purpose of one major automotive system.
0	No Evidence	No evidence shown.

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13. General Auto Maintenance/ Fluid Services (7 days) (7.18%)

Learning Targets

13.1 I can assess all fluid levels on a vehicle and add if deficient.

Learning Target	Descriptor	Definition
4	Proficient	I can assess all fluid levels on a vehicle and add if deficient.
3	Developing	I can assess most of the fluid levels on a vehicle and add to them if deficient.
2	Basic	I can assess a few of the fluid levels on a vehicle and add to them if deficient.
1	Minimal	I can assess a few of the fluid levels on a vehicle but not add if deficient.
0	No Evidence	No evidence shown.

14. Tire Fundamentals and Repair (1 week) (7.14%)

Learning Targets

14.1 I can assess most common tire, wheel problems and their possible solutions.

Learning Target	Descriptor	Definition
4	Proficient	I can assess most common tire, wheel problems and their possible solutions.
3	Developing	I can assess some common tire, wheel problems and their possible solutions.
2	Basic	I can assess a few common tire, wheel problems and their possible solutions.
1	Minimal	I can assess a few common tire, wheel problems but cannot identify their possible solutions.
0	No Evidence	No evidence shown.

Submitted on 6/29/2021 by