



Sparta Area School District

Good people, great schools.

Course Outcome Summary

Course Information: **Simple Fixes**

Description: This class introduces students to basic home and automotive maintenance. Skills will then be used in the construction of larger projects; basic math skills will also be stressed. In this class, we will place value on those things a potential employer would consider important in maintaining and keeping a job.

Instruction Level: Grades 11-12

Total Credits: 1

Prerequisites: Intro technology Education

Course Standards:

Common Career and Technical Core:

- Communicate and collaborate with others to accomplish tasks and develop solutions to problems and opportunities.
- Identify and apply employability skills.
- Assess benefits and challenges of working in diverse settings and on diverse teams.
- Apply leadership skills in real-world, family, community and business and industry applications.

Content Standards:

- Interpret and use residential construction blueprints and specifications.
- Apply measurement systems in the planning and layout process used in the residential construction industry
- Demonstrate the safe and appropriate use of hand tools common to the residential and commercial construction industry.
- Demonstrate the safe and appropriate use of portable power tools that are common to the residential construction industry and are appropriate to the individual student's level.
- Demonstrate the variety of building phases, systems and techniques used in architecture and construction.
- Analyze and explain how transportation vehicles and transportation vehicle work.
- Develop the skill set necessary to diagnose, problem solve and repair transportation vehicles.

ACT Reading and Writing Standards:

- Show a basic understanding of the persuasive purpose of the task by taking a position on the issue in the prompt.
- Generate reasons for a position

- Maintain a focus on the general topic in the prompt throughout the essay
- Provide a simple organizational structure by logically grouping some ideas
- Present an introduction and conclusion
- Locate and interpret minor or subtly stated details in somewhat challenging passages
- Draw logical conclusions in more challenging passages
- Paraphrase virtually any statement as it is used in somewhat challenging passages
- Order simple sequences of events in somewhat challenging literary narratives
- Understand point of view in somewhat challenging passages

Unit

1. Home Maintenance
2. Automotive Maintenance

Unit Outlines

1. Home Maintenance

Standards

- Interpret and use residential construction blueprints and specifications.
- Apply measurement systems in the planning and layout process used in the residential construction industry
- Demonstrate the safe and appropriate use of hand tools common to the residential and commercial construction industry.
- Demonstrate the safe and appropriate use of portable power tools that are common to the residential construction industry and are appropriate to the individual student's level.
- Demonstrate the variety of building phases, systems and techniques used in architecture and construction.

Essential Question:

Students will be able to answer the question:

- What are some of the construction systems that home owners can maintain in their house?
- How are these systems applied and maintained?

Essential Knowledge:

Students, using previously learned knowledge, will be able to read a blueprint.

- Home Layout
- Carpentry
- Electrical
- Drywall
- Tile
- Plumbing

2. Automotive Maintenance

Standards:

- Analyze and explain how transportation vehicles and transportation vehicle work.
- Develop the skill set necessary to diagnose, problem solve and repair transportation vehicles.

Essential Question:

Students will be able to answer the question:

- How are vehicles identified?
- What are the different fluids in a vehicle and how are they maintained?
- What are some simple maintenance tasks that will increase the life of your vehicle?

Essential Knowledge:

Students will be able to identify automotive systems and know how to trouble common problems.

- General Maintenance
- Fluid Systems
- Steering, Suspension, and Tires
- Brakes Systems
- Drivetrain System
- Electrical System
- Common Problems and Roadside Emergencies

