

Wallenpaupack Area School District

Wallenpaupack Area Middle School

Course Title: Outdoor Power Equipment

Length of Course: 1/2 Quarter (Approx. 22 Days)

District Policies:

Academic Integrity:

Academic integrity is essential to the success of an educational community. Students are responsible for learning and upholding professional standards of research, writing, assessment, and ethics in their areas of study. Written or other work which students submit must be the product of their own efforts and must be consistent with appropriate standards of professional ethics. Academic dishonesty, which includes cheating, plagiarism, multiple submissions and other forms of dishonest or unethical behavior, is prohibited.

Assessment:

The goal of grading is to report student progress and achievement to the parents to strengthen the home-school connection. The grade should accurately reflect the student's performance in mastering the PA Standards and the WASD curriculum.

Attendance:

Regular school attendance is vitally important to academic success. Not only does attendance reinforce and enrich the learning process; it also establishes patterns and attitudes that will be carried forward into adult work habits. Regular, consistent attendance is a prerequisite to successful school life.

Children should be absent only in cases of illness or emergency.

Special Education:

Our commitment to each student is to ensure a free appropriate public education which begins with the general education setting, with the use of Supplementary Aids and Services. Inclusive education describes the successful education of all students with the appropriate support and services to participate in and benefit from the general classroom settings and other educational environments.

Course Description:

This hands-on course introduces 8th grade students to the fundamentals of small engine technology. Students will explore how small gasoline-powered engines work by learning about engine components, basic mechanical systems, fuel and ignition systems, and routine maintenance procedures. Through demonstrations, shop activities, and guided projects, students will develop safe tool-handling practices while gaining practical experience in disassembling, inspecting, and reassembling small engines commonly found in lawn mowers, trimmers, and other outdoor power equipment.

Students will also learn troubleshooting techniques, problem-solving skills, and the importance of proper maintenance in extending equipment life.

Pennsylvania State Standards:

All WAMS courses are aligned to the PA State Standards and Common Core Standards, where applicable.

Course Objectives:

Students will demonstrate the ability to:

- Understand the basic operation of two-stroke and four-stroke engines.
- Identify major engine components and their functions.
- Practice safe use of hand tools and shop equipment.
- Perform routine maintenance and basic repairs of small engines.
- Demonstrate troubleshooting and diagnostic skills.
- Explore careers related to mechanical technology and skilled trades.

Student Responsibilities:***Attendance expectations:***

Attendance is essential to reaching your full potential in understanding Technology Education concepts.

Homework expectations:

Assigned homework is expected to be completed to reinforce skills and concepts taught.

Make-up work: Course is only ½ quarter long. Make up work must be in before the end of the course duration.

Late work: Any completed late work turned in the next class period will receive half credit.

Assessment:***Grading components:***

Tests	100 points
Quizzes	50 points
Assembly Project	200 points

Content Pacing Guide: The following pacing guide is a general guideline, and the instructional content/timeframe may vary.

Topic	Major Assignments	Estimated Timeframe (Classes)
Introduction to shop safety	Safety Test	1 class
Small Engine Basics, Principles and History	Small Engine Principles Test	6 class
Small Engine disassembly and Components Identification and function	Component Function Test Component Identification Test	6 classes
Small Engine Carburation	Carburetor Quiz	2 classes
Small Engine Reassembly	Assembly project Rubric	5 classes
Small Engine Maintenance and Trouble shooting	Maintenance and troubleshooting Quiz	2 classes