



ANNO SCOLASTICO 2024-2025

Classe: 5AT

MATERIA: Inglese

DOCENTE: Stefania Palagi/Virginia

ORE SETTIMANALI: 3

Gambicorti

Libro di testo: Rosa Anna Rizzo, *Smartmech, Mechanical Technology & Engineering*, Eli Publishing.

PROGRAMMA SVOLTO

Unit 5 – Machining operations

- Power-driven machines
- The lathe - parts of lathes
- Machine tool basic operations: drilling, boring, milling, grinding.

Unit 6 – Metal Process

- Steelmaking, casting, sand casting and strand casting, forging.

Unit 7 – The Motor Vehicle

- What makes a car move
 - Drive train
 - The four - stroke engine
 - The two - stroke engine
 - The diesel engine
 - Biofuels
- Basic car systems
 - The fuel system: carburisation, fuel injection and EFI
 - The electrical system
 - The braking system: hydraulic brake system
 - The cooling system
 - The exhaust system
- Alternative engines
 - Electric and hybrid cars
 - Fuel cell vehicles

Unit 9 – Heating and Refrigeration

- Heating systems: hot – water central system, warm – air central heating, alternative heating systems.
- Refrigeration systems: mechanical refrigeration, air conditioning.

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La docente
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