

IIS "GUGLIELMO MARCONI"

LINGUA E CULTURA INGLESE

CLASSE IV sez. A (indirizzo meccanica/meccatronica)

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### LIBRI DI TESTO ADOTTATI:

- ✚ "Grammar in Progress", di Bonci e Howell, ed. Zanichelli;
- ✚ "Take The Wheel Again – New Edition. English For Mechanical Technology & Engineering", I. Piccioli, ed. San Marco.

### PROGRAMMA SVOLTO

#### MODULE 2 - MATERIALS

- Materials and their Properties
- Metals: ferrous metals vs non-ferrous metals
- Plastics
- Ceramics
- Composites
- Electrical materials
- Cutting materials
- Nanotechnology
- **Grammar focus:** azioni nel passato. Past simple vs past continuous

#### MODULE 3 - MACHINE TOOLS

- Machining operations
- Cutting
- Milling
- Types of milling machines
- Grinding
- The Central Lathe
- The Lathe: Main parts and Basic Operations
- Boring
- Planing and shaping

- Drilling

## **MODULE 5 - MOTOR VEHICLES**

- The Automobile: A Revolutionary Invention
- The Fuel Engine.
  - The Four-Stroke Internal-Combustion Engine,
  - The Two-Stroke Internal Combustion Engine.
  - The Diesel engine
- Engine subsystems.
  - The Ignition System,
  - The Cooling System,
  - The Air-Intake System,
  - The Starting System,
  - The Lubrication System,
  - The Fuel System,
  - The Exhaust System,
  - The Electrical System.

## **EDUCAZIONE CIVICA:**

- Agenda 2030 and Climate Change.