

PROGRAMMA DI INGLESE SVOLTO

Classe 5^a AMM

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MECHANICS

Module 4: Machining Operations

POWER-DRIVEN MACHINES:

- Machine tools
- Machine tools classifications
- Line shafts

THE LATHE:

- Parts of a lathe
- Major types of lathes

MACHINE TOOL BASIC OPERATIONS:

- Drilling
- Boring
- Milling
- Grinding
- Laser beam machining: CO2 Laser and Fibre Laser

Module 5: Metal Processes

METALWORKING:

- Steelmaking

- Casting
- Die-casting
- Sand casting
- Strand casting

METAL SHAPING METHODS:

- Hot and cold processes
- Forging
- Extrusion
- Powdered metal processes
- Sintering

METAL JOINING PROCESSES:

- Welding
- Brazing and soldering
- Sheet metal processing

Module 6: Vehicles

THE HEART OF A CAR:

- When cars were first invented
- What makes a car move
- The four-stroke engine
- The two-stroke engine
- The diesel engine
- Electric cars
- Hybrid cars: Hybrid Electric Vehicles (HEVs) and Plug-in Hybrid Electric Vehicles (PHEVs)

Module 7: Systems and Automation

THE COMPUTER SYSTEM:

- CPU, ROM, RAM, BUS
- Internet basics: definition of WWW, Bluetooth, Wi-Fi

MECHATRONICS:

- Robotics

- CNC
- Robots & Cobots
- Difference between a robot and a cobot
- Drones
- Sensors: tactile, visual and smart sensors
- Fibre optics
- Domotics

INVALSI mock test

LITERATURE AND HISTORY

- George Orwell: life
 - "Animal Farm": plot and characters
 - "1984": plot and characters
- Oscar Wilde: life
 - "The Picture of Dorian Gray": plot, characters and ideas

CIVIL RIGHTS

- Vision of the film "Selma": plot and reflections
- Racial discrimination and segregation in America and South Africa
- Martin Luther King and the speech "I Have a Dream"
- Nelson Mandela and Apartheid
- The Suffragettes
- Conference by the English teacher Ian Wolff on the history of the Suffragettes

EDUCAZIONE CIVICA

- Racial discrimination and Human Rights

Mondovì, 27 maggio 2026

L'insegnante Prof.ssa Claudia Marconato

I rappresentanti di classe Martino Francesco

Ornato Achille