



ISTITUTO STATALE DI ISTRUZIONE SUPERIORE "MARGARITONE"
ISTITUTO PROFESSIONALE STATALE PER L'INDUSTRIA E L'ARTIGIANATO "MARGARITONE"
:Via Fiorentina, 179 - 52100 AREZZO

PROGRAMMA SVOLTO

Docente Eminentì Rebecca

Disciplina Lingua e cultura inglese

Classe V EMB Anno Scolastico 2023/2024

Testo adottato: Rizzo R. A., "Smartmech Premium", Eli.

Piccioli I., "Tech Geek, English for Mechanical, Electrical and IT Maintenance Technicians", San Marco. (fornito dalla docente).

Dal volume *Tech Geek, English for Mechanical, Electrical and IT Maintenance Technicians*

MODULE A: Physics and electricity essentials

Step 1: Physics basics

- The atom

Step 2: An introduction to electricity

- Measuring electricity
- Conductors, insulators and semiconductors
- The electric circuit and its components
- Alternating and direct current
- Generating electricity: batteries
- Energy sources
- Advantages and disadvantages of renewable energy sources
- Electricity distribution

MODULE C: Electronics all around us

Step 5: Electronics basics

- Electrical circuit symbols
- The transistor
- Basic electronic circuit components: resistors and capacitors
- Alternators and rectifiers (*fornito dalla docente*)
- Transformers (*fornito dalla docente*)
- Electric motors (*fornito dalla docente*)

MODULE E: Safety first

Step 9: Safety at home

- Electrical safety basics

GRAMMAR

- Present simple and present continuous
- Past simple
- Comparatives and superlatives

VOCABULARY

- Electricity
- Electric circuits
- Non-renewable and renewable energy sources

Dal volume *Smartmech Premium*

MODULE 8: Systems and Automation

The computer system

- Computer basics
- Internet basics

Multidisciplinary field

- Robotics

Computer automation

- Robots
- Drones
- Sensors
- Domotics
- Remote control

VOCABULARY

- Computer automation
- Computer technology

CLIL

- Virtual reality

GRAMMAR

- Present perfect
- Future forms
- First conditional

LITERATURE

- Big Brother is watching you George Orwell's dystopia

Educazione civica: The 17 Sustainable Development Goals (SDGs).

From the MDGs to the SDGs, the birth of the UN.

VIDEO: the global broadcast "Nations United: Urgent Solutions for Urgent Times".

UDA: Sensors and the electric motor.

Inoltre sono state svolte le attività finalizzate alla preparazione del test INVALSI per la lingua inglese. Infine, è stato fornito ulteriore materiale dall'insegnante tramite il registro elettronico.

Arezzo, 5/06/2024

Firma del docente



Firma degli Alunni

