



ANNO SCOLASTICO 2024-25
Classe: 5 CT

MATERIA: LINGUA INGLESE

Docente: Anna Lazzari

ORE SETTIMANALI: 3

Libro di Testo: Bolognini, Barber, O'Malley, *Career Paths in Technology*, Pearson, 2022.
Testi di approfondimento e link a video caricati su Classroom.

Programma svolto

Module 1 – Generating Electricity (Unit 4 p. 48)

- Methods of producing electricity
- The generator
- Fossil fuel power station
- Fracking and its dangers
- Nuclear power station
- Controlling a nuclear reactor
- Renewable energy 1: Water and wind
- Renewable energy 2: Sun and Earth

Module 2 – Distributing Electricity (Unit 5 p. 64)

- The power distribution grid
- The domestic circuit
- Managing the grid
- The transformer
- The smart grid
- Storing energy on the grid
- Emergency action (Safety)

Module 3 – Automation (Unit 9 p. 120)

- What is automation
- Advantages of automation
- Programmable logic controller
- Automation in operation: A heating system
- Automation in the home
- Automation at work

- How a robot works
- Varieties and uses of robots
- Robots in manufacturing
- Types of industrial robots
- Robotics in the news
- The three-phase asynchronous machine (handout)

Module 4 – Industry 4.0 and the Future (Unit 16 p. 230)

- The Fourth Industrial Revolution
- Foundations of Industry 4.0
- Lasers
- How lasers are used
- Will technology make humans redundant?

Educazione Civica: Renewable energy sources and power plants.

Ogni studente ha poi approfondito un argomento a piacere (correlato con il programma) e ha presentato una mini lezione a tutta la classe.

Viareggio, 1 giugno 2025

La docente: prof.ssa Anna Lazzari

A handwritten signature in blue ink, reading "Anna Lazzari". The signature is written in a cursive style with a small dot at the end of the last name.