



Istituto Tecnico Industriale Statale "Q. Sella"
13900 BIELLA



Anno Scolastico 2025/2026

CLASSE V sez. A

Indirizzo: Elettronica

DISCIPLINA	LINGUA INGLESE
DOCENTE	GRAZIA SEMPREVIVO
TESTO/I ADOTTATO/I	IT WORKS! ENGLISH FOR ELECTRONICS, ELECTROTECHNOLOGY AND MECHANICS.

Biella, 06.05.2026

La Docente
Grazia Semprevivo



PROGRAMMAZIONE DI DIPARTIMENTO

MODULE 1 – CULTURAL MATTERS (appunti forniti dalla docente)

American Voting System
American government system
BREXIT
The British Political system
The English Parliament
The European Election
The Single Market in the E.U.
The Industrial Revolution
Victorian Age

MODULE 2 – DISTRIBUTION OF ELECTRICITY

From Power plants to houses: the electrical grid
The function of power plants
Transformers
Energy problems
A new grid to meet our needs
Electricity in Use
DC and AC current
The electric motor
The main types of electric motors

MODULE 3 – THE BASICS OF ELECTRONICS

Electronics and electrotechnology
Passive and active components
Components at work
Traditional and Integrated circuits
Jack Kilby and Robert Noyce
Types of Integrated Circuits
Analogue and digital
From input to output
Microprocessors
Microchips

MODULE 4 - AUTOMATION

What is Automation?
Automated system components: PLC, sensors and actuators
Robots
Cobots
Types of robots: Sophia



PROGRAMMA SVOLTO

METODI UTILIZZATI

Lezioni Frontali
Gamification
Cooperative Learning
Peer – to – peer learning activities

MEZZI E STRUMENTI

Libro di testo
Appunti forniti dalla docente
Piattaforme online e video approfondimenti

VERIFICHE

Verifiche orali, verifiche scritte: multiple choices, open questions, fill in the gaps.

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