

PROGRAMMA SVOLTO

A.S. 2024/2025

DOCENTE

Perrone Emanuele

MATERIA

Inglese

CLASSE

5AUT 2

Animal Farm

- lettura e analisi dell'opera

Module 1: Electricity

Unit 1: What is Electricity

Atoms, the building blocks

What is static electricity

Unit 2: Moving charges and electric current

Electricity and current flow

Moving electrons

Types of current

Measuring electric current

Resistance

Inductance

Battery basics

Unit 3: Electric circuits

What is an electric circuit?

Closed, open and short circuits

Series and parallel circuits

Electric shock

Unit 4: Energy sources

Hydroelectric power plants

Thermoelectric plants

Nuclear power plants

Solar energy

Wind energy

Tidal energy

Geothermal and biomass energy

Unit 5: Generating electricity

AC/DC electricity and generators

The electric motor

Transformers

Rectifiers and diodes

The grid

Module 2 Electronics

- Unit 3 Amplification

What is an amplifier?

Operational amplifiers

Different types of amplifiers

Module 4 Communicating

Unit 1 Communications and telecommunications

Telecommunications

Transmission media: wires and cables

Optical fibres

Air transmission: antennas

Satellites

Module 6 Automation and Robots

Unit 1 Automation

What is automation?

Handling the automation process

Programmed commands in CNC systems

Computer-assisted technologies

Automation and society

Unit 2 Robotics

What is a robot?

What a robot looks like?

Why a robot?

Mobile robots

Artificial intelligence

1984 (Orwell)

- analisi e temi del romanzo

James Joyce

- analisi e temi della storia "The Dead" (*Dubliners*)

The Waste Land: TS Eliot

- analisi e temi dell'opera (estratto)

Waiting for Godot: Beckett

- analisi e temi dell'opera (estratto)

Educazione Civica

- visione e commento del film "The Boy Who Harnessed the Wind"

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TESTI IN ADOZIONE

<i>New Electr-on New Edition, Edisco editore, Raffaella Beolé e Margherita Robba</i>
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Il docente

I rappresentanti degli studenti
