

ISTITUTO di ISTRUZIONE SUPERIORE “Ettore Majorana”

PROGRAMMA

Anno Scolastico 2022-2023

MATERIA: Lingua Inglese

CLASSE: 5A

INDIRIZZO: Elettronica

LIBRI DI TESTO: “New On Charge” A. Strambo, P. Linwood, G. Dorrity – Petrini

Unit 6 Current and Circuits

- Getting started
- DC and AC circuits

Unit 9 Renewable and non-renewable energy resources

- Electricity generation, transmission and distribution
- Energy production – which way forward?

Unit 11 Electronic components

- Electronic components: description
- Passive components

Unit 12 Diodes and transistors

- The Junction Diode
- The Bipolar Junction Transistor
- Transistors –transforming our world
- The birthplace of the transistor (Reading)

Unit 13 Amplifiers

- How sound is amplified
- Operational amplifiers

Unit 15 ICs Integrated Circuits

- Getting started
- Microchips and their characteristics
- All about doping!
- The making of a chip

Unit 19 Programmable Logic Controller

- The PLC: Richard Morley’s clever invention
- Automation Past, Present, Future

Unit 20 Work Safety

- Safety in the workplace
- E-waste

EDUCAZIONE CIVICA

- E-waste
- Safety in the workplace