

Polo Scientifico Tecnologico Professionale “E.Fermi G. Giorgi”
Programma svolto di Lingua Inglese
Classe 5 AEN a.s. 2016/2017

Dal Libro di testo:

Gateway Versione mista Ed. Macmillan

Sono stati rivisti e approfonditi tutti gli argomenti studiati nel triennio.

Dal libro di testo:

English new technology Electricity Electronics, IT& Telecoms. Ed. Pearson Longman

Electricity

Unit 1 Electric Energy

Atom and electrons, key words, Conductors and insulators, The Battery, History of electricity, How the battery was invented, Types of battery

Pag 8 ,9,10,11, 12, 13, 14, 15,

Unit 2 Electric circuits

A simple circuit, key words, Types of circuits, Current voltage and resistance, Tools, Measuring tools, How Edison and electricity changed the world, Light bulbs.

Pag 20,21, 22,23,24,26,28,29

Unit 3 Electromagnetism and motors

Electricity and magnetism, key words, Simple applications of electromagnetism, Electric motor, Electric cars, Electric cars advantages and disadvantages.

Pag 32,33, 34,35,39,40

Unit 4 Generating Electricity

Methods of generating electricity, key words Renewable energy

Pag. 44,45,50,51,52,53

Unit 5 Distributing grid

The distribution grid, key words, The transformer, The domestic circuit, Edison and Tesla and the AC/DC battle, Dangers of electricity, Act in emergencies, Safety signs, Work safely with electricity, Maglev: the transport of the future.

Pag. 56 ,57, 58, 59, 60, 63,64, 65,66,67,69

Electronics

Unit 6 Electronic components

Semiconductors, Transistors, Basic electronic components

Pag. 74,75,76

Unit 8 Microprocessors

What is a microprocessor?, Key words, The microprocessor, Logic gates, Digital kitchen scales,

Pag. 96, 97, 98, 99, 100, 101

Unit 9 Automations

What is automation? , Key words, How automation works, Automation in operation: a heating system, How a robot works, Robots past and present, Varieties and uses of robots, Robots in manufacturing, Artificial intelligences and robots, Australia’s digital education.

Pag 108,109, 110, 111, 114,115, 116, 117,118,120,121.

Technology and society

Unit 10 Computer hardware

Types of computer, The computer system, Input output devices Computer storage, Upgrading hardware History of the computer

pag. 124,126,127,128,130,134,135

Unit 11 Computer software

Alan Touring and intelligent machines

Pag 143

Technology and society

Unit 17 Employment in new technology

The curriculum vitae

Pag 222, 223

Prof.ssa Raffaella Vero

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Gli alunni,

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