



ISTITUTO DI ISTRUZIONE SUPERIORE

"Buonarroti-Volta"

Sede Associata: Via Svevia 10 09038 Serramanna (SU)

Programma di Lingua Inglese

Anno Scolastico 2025/2026

Classe: 4Q Informatica e Telecomunicazioni - Art. Informatica

Materia: Lingua Inglese

Docente: Daniela Urpi

LIBRI DI TESTO UTILIZZATI: M. Ravecca, *Information technology - Skills and competences*, Minerva Scuola; J. Hird, *Grammar and vocabulary for the real world*, Oxford; materiali vari, realia e dispense fornite dall'insegnante.

Contenuti

SECTION 1: GRAMMAR

Revisione delle principali strutture e funzioni linguistiche affrontate nel biennio e nella classe terza ogni qualvolta se ne ravvisi la necessità. All modal verbs with scenario: *can, could, be able to; may, might; should, ought to, must, have to, need*; the passive form; passive with *get*; relative pronouns and clauses; present perfect and present perfect continuous; past perfect and past perfect continuous; If clauses (all types).

Skills: skimming, scanning, reading for details; chunking; recording new words/ mind maps; using a dictionary; note taking; summarizing a text; understanding idioms; pronunciation practice.

SECTION 2: INFORMATION TECHNOLOGY

History of computers

- A brief history of computers (abacus, Napier's bones, Pascaline, Leibniz wheel, Difference engine, Analytical engine, Tabulating machine, Differential analyser, Mark I)
- Generations of computers

Unit 4 - The "brain of the computer"

- The CPU
- The first of the bricks that built the IT world
- Federico Faggin and A.I.
- Video: "In an age of his own" - Federico Faggin's story
- If transistors were people

Unit 5 - Storage

- RAM and ROM

- Primary and secondary memory
- Bringing your files with you
- Flash memory cards and SSD (hints)
- Your data is in the cloud.

Unit 6 - Input & output

- Input and output devices
- It's time to say "Good-bye , keyboard"?

Unit 7 - Operating systems

- Operating systems - brief
- Windows multitasking

Unit 8 - Computer languages

- Programming languages: low-level and high-level languages
- Object-oriented programming

UDA condivisa (Inglese / Informatica)

Reality task: Writing a handbook/glossary about object-oriented programming languages and Java.

UDA condivisa (Inglese / Informatica/ Telecomunicazioni)

Reality task: DIY solar tracking kit

Description of the different components, functions, projects;

Arduino IDE; programming language and flowchart.

SECTION 3: CULTURE

A step into history: Oliver Cromwell

Module 1: The Elizabethan Age

Life in Elizabethan England

The Age of theatres and Drama: structure, features, themes.

W. Shakespeare: life and works.

W. Shakespeare's *Othello* (plot, themes, excerpts)

SECTION 4: ACTIVE CITIZENSHIP

Gender-based violence and discrimination in William Shakespeare's *Othello*

Serramanna, 03/06/2025

La Docente

Daniela Urpi

Gli studenti