



# ISTITUTO DI ISTRUZIONE SUPERIORE

"Buonarroti-Volta"

Sede Associata: Via Svevia 10 09038 Serramanna (SU)

## Programma di Lingua Inglese

Anno Scolastico 2024/2025

**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

Grammar: Revisione delle principali strutture e funzioni linguistiche affrontate nel biennio e nella classe terza; articles (special uses); prepositions of time, place, movement; suffixes: *-er, -ly, -less, -ful, -hood*; prefix *un-*; modal verbs; the passive form; passive with *get*; relative pronouns and clauses; gerund; present perfect and present perfect continuous; If clauses (all types); compounds of *some, any, no, every*.

Skills: skimming, scanning, reading for details; chunking; recording new words/ mind maps; using a dictionary; note taking; summarizing a text; 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.
- If transistors were people

##### Unit 5 - Storage

- RAM and ROM

- Bringing your files with you
- Flash memory cards
- SSD: the new generation of personal computer storage
- 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): definitions, features, open source vs proprietary

#### **Unit 8 - Computer languages**

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

#### **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**

#### **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 masterworks: *Hamlet* (soliloquy, act III, scene I); *Othello*.

Sonnet XVIII

#### **Module 2: Geography**

Ireland

The Irish question

Song: "Sunday Bloody Sunday" by U2

### **SECTION 4: ACTIVE CITIZENSHIP**

The European Union; main institutions

The Commonwealth and the British Empire

Serramanna, 03/06/2025

La Docente

*Daniela Urpi*

Gli studenti