



## ISTITUTO DI ISTRUZIONE SUPERIORE

*"Michelangelo Buonarroti"*

Sede Associata: Via Svezia 10 09038 Serramanna (SU)

### Programma di Lingua Inglese

**A.S. 2020/2021**

**CLASSE : 5R - Informatica e Telecomunicazioni - art. Informatica**

**DOCENTE: Prof.ssa Daniela Urpi**

**LIBRI DI TESTO UTILIZZATI:** M. Menchetti, C. Matassi, *New Totally Connected* - Seconda Edizione, CLITT; J. Hird, *Grammar and vocabulary for the real world*, Oxford; testi E materiali forniti dall'insegnante.

#### **CONTENUTI**

##### **Grammar:**

Revision of the tenses studied in the previous years;  
The passive voice;  
If clauses (type 0/1/2/3)

#### **Section 1: INFORMATION AND COMMUNICATION TECHNOLOGY**

##### **Module 5: Application packages**

What is a Database?  
Database managers  
What can database managers do  
SQL and Query

##### **Module 6: Languages**

Programming languages: low-level languages  
Communicating with a computer  
First generation: machine code  
Second generation: Assembly language  
Programming languages: high-level languages  
Third and fourth generations (*hints*)  
Special languages (*hints*)

## **Module 8: Security and Cryptography**

Computer security  
What's cryptography?  
Encryption and decryption  
Alan Turing and codebreaking

## **Module 9: It's a wired world**

Understanding networks  
Types of networks (LAN, MAN, WAN, SAN, PAN, BAN)  
VPN  
Networking devices  
Topologies: physical and logical topologies

## **Module 12: Finding the right career path**

IT in our lives yesterday and today  
Career opportunities for IT specialists

## **Section 2: CULTURE/INTERCULTURE**

### **Module 1: USA yesterday and today**

Geographical features, climate  
Political system  
Population and ethnic composition  
M. L. King's speech "I have a dream"

### **Module 3 (UdA interdisciplinare): Oscar Wilde**

Life and works  
The Aesthetic movement  
The Victorian Era (social context)  
Reading from "*The picture of Dorian Gray*": Conclusion

## **SECTION 3: CIVICS**

America's gun culture and mass shootings  
Racism , discrimination and white supremacy in the USA: "Black Lives Matter" movement

### **Exam preparation and INVALSI practice:**

INVALSI practice (B1/B2)  
Speaking and writing activities about all the topics in the program.

Serramanna, 01 /06/2021

La Docente

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