



I.T.I.S. "MAGISTRI CUMACINI"

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PROGRAMMA SVOLTO ANNO SCOLASTICO 2023/2024

DOCENTE
Alessandra Negro

MATERIA
Inglese

CLASSE
5INF3

ORWELL, ANIMAL FARM

- Lettura e commento del testo

THE HISTORY OF COMPUTING (extra material)

- From the abacus to modern computers

COMPUTER HARDWARE AND PERIPHERALS (step 2 of the textbook + extra material where specified)

- The brain of a PC: the CPU
- Microprocessors (extra material)
- Computer memory
- Categorizing peripherals
- Input vs. output devices
- Printers
- 3D printing and wide-format printers
- How a laser printer works (video <https://www.youtube.com/watch?v=WB0HnXcW8qQ> – extra material)
- 3D-printed food: what it is and some projects: Edible Growth, NovaMeat and Redefine Meat (extra material: videos. Edible Growth <https://www.youtube.com/watch?v=hw321SwC6kA>, NovaMeat <https://www.youtube.com/watch?v=238yRdb0niw>, Redefine Meat <https://www.youtube.com/watch?v=zQSCzHaMcTg>)

PROGRAMMING LANGUAGES AND OPERATING SYSTEMS (step 4 of the textbook + extra material where specified)

- Basic features of programming languages and operating systems
- Low-level programming languages
- Mary Keller: accessing education through a computer
- High-level programming languages
- Website development
- Operating systems (extra material)

APPLICATION SOFTWARE (extra material)

- Software distribution
- Intellectual property rights
- Measuring fair use: the four factors



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DATABASES (step 5 of the textbook + extra material where specified)

- Databases
- Types of database
- File processing systems (extra material)
- The Database approach (extra material)
- Operational and analytical databases (extra material)
- Data mining, predictive analysis and OLAP (extra material)
- Relationships in a database (extra material)
- Types of databases (extra material)
- Big data (extra material)

NETWORKS (step 8 of the textbook + extra material where specified)

- Network configurations
- Network nodes
- Communication protocols and internet protocols
- The internet and the web
- Surfing the net
- Sharing knowledge
- Social networks
- Communicating online
- *The Social Network*: how the story of the fastest growing social network began
- History of the internet (extra material: text + videos

<https://www.youtube.com/watch?v=1UStbvRnwmQ&authuser=0> and
<https://www.youtube.com/watch?v=1CsPHKJWiw0&authuser=0>)

DIGITAL SECURITY (step 9 of the textbook + extra material)

- Malware: a threat for your computer
- Protecting computers
- Online intrusions (extra material)
- Firewalls and DMZs (extra material + videos about DMZs
<https://www.youtube.com/watch?v=8SY4bU7AQwE> and
<https://rb.gy/uhpoik>)
- Interception (extra material)
- Spam (extra material: history of spam and video of the Monty Python's sketch
<https://www.dailymotion.com/video/xn8w7>)
- Basic security: encryption and authentication (extra material)

A STEP AHEAD (step 7 of the textbook + extra material) (da completare dopo il 15 maggio)

- Artificial intelligence
- What is AI? (video) <https://www.youtube.com/watch?v=ad79nYk2keg&authuser=0>

JOB OPPORTUNITIES (cenni) (extra material) (da completare dopo il 15 maggio)

- The European CV
- How to write a covering letter



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- How to deal with a job interview (video
<https://www.youtube.com/watch?v=HG68Ymazo18>)
- Using LinkedIn

TESTI IN ADOZIONE



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Cristina Oddone, *Clickable*, Editrice San Marco
Testi forniti dalla docente, disponibili sul Drive di Classroom
Video da Youtube e DailyMotion

Data _____

firma Docenti _____

firma Studenti _____