



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

via C. Colombo – loc. Lazzago – 22100 **COMO**  
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## PROGRAMMA SVOLTO ANNO SCOLASTICO 2023/2024

**DOCENTE**  
Alessandra Negro

**MATERIA**  
Inglese

**CLASSE**  
5INF1

### **ORWELL, ANIMAL FARM**

- Lettura e commento del testo

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

- The brain of a PC: the CPU
- 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

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

- Databases
- Types of database
- File processing systems (extra material)



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- 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>
- Group work: research about a chosen AI

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

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



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## TESTI IN ADOZIONE

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 \_\_\_\_\_