ISTITUTO ISTRUZIONE SUPERIORE "CIGNA – BARUFFI - GARELLI" MONDOVI'

A.S. 2022/2023

PROGRAMMA DI INGLESE SVOLTO NELLA CLASSE 5° AEE

INSEGNANTE: MELLANO MORENA

ELECTRICITY, ELECTRONICS AND IT

Unit 7: How does an electronic circuit work?
- Printed circuit boards (p. 77)
- The first printed circuit boards (p. 78)
- Let's learn to prototype (p. 79)
- Design rules (p. 82)
- Circuit Symbols (p. 84)
- The tools of the trade (p. 86)
- Analogue and digital (dispense)
- The race to build the integrated circuit (dispense)
- Oscillators (dispense)
- The problem of electronic waste (dispense)

Unit 8: Amplifiers
- What is an amplifier? (p. 89)
- Classification of amplifiers (p. 91)
- Operational amplifiers (p. 93)
- Audio mixers (p. 95)
- Reading a data sheet (dispense)

Unit 9: Let's get started with computers
- The history of computers (dispense)
- Computational thinking (p. 103)
- What is an Algorithm? (p. 105)
- Ubiquity of algorithms (p.106)
- Flowcharts (p. 107)
- Binary logic (p. 109)
- Logic gates and truth tables (p. 110)
- What were computers like before the binary number system? (p. 112)

CULTURAL BACKGROUND: HISTORY

- The Great Depression (dispense)
- Key moments in the 20th century (dispense)

LITERATURE AND CIVILIZATION

The United States of America

- Old Glory (p. 93)
- The Constitution (p. 98)
- George Washington (p. 101)
- The War of Independence (p. 103)
- Ethnic diversity (p.104)
- African Americans (p. 110)
- The Civil Rights Movement (pp. 112-113)
- Henry Ford (p.130)
- Slavery in the Sothern states (p.136)
- North and South (pp.138-139)
- The Cold War (p.159)
- The protests movements (p. 170)
- The Vietnam War (p. 171)

George Orwell and "Animal Farm"

- George Orwell (life and works)
- "Animal Farm": plot, characters and allegorical meaning
- Russian Revolution: figures, key ideas and concepts

Civil rights

- Martin Luther King and his speech "I have a Dream" (dispense)
- Film "Selma" (dispense): main scenes
- Malala Yousafzai and her speech at the United Nations (dispense)

Sustainability

- Renewable sources of energy: main types, advantages and disadvantages (dispense)
- Nuclear power: fission and fusion (dispense); Enrico fermi and the atomic bomb (dispense)

EDUCAZIONE CIVICA

- Discrimination, human and civil rights:
  Different types of discrimination
  The suffragette Movement, Nelson Mandela and Rosa Parks

Mondovì, 30 / 05 / 2023

L'insegnante

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I rappresentanti

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