



Istituto Tecnico Commerciale e Geometri "G. M. ANGIOY"

Liceo scientifico (op. scienze applicate), Costruzioni Ambiente e Territorio, Grafica e Comunicazione, Biotecnologie Sanitarie, Informatica e Telecomunicazioni

C. M. CATD020007 – C.F. 81003250925

e-mail: catd020007@istruzione.it – pec: catd020007@pec.istruzione.it – sito: <http://istitutoangioj.edupa.it>

Sede: Via Costituente, 59 - 09013 CARBONIA(SU) – Tel. 0781-660406

PROGRAMMA SVOLTO

ANNO SCOLASTICO

2025 / 2026

DISCIPLINA

LINGUA E CULTURA INGLESE

DOCENTE

ROBERTA TOCCO

CLASSE

4 B

CORSO BIOTECNOLOGIE SANITARIE

TESTO ADOTTATO

BRIANO P. / ANERDI M.G. - A MATTER OF LIFE 4th EDITION - VOL. U - EDISCO

ENGLISH FOR CHEMISTRY, BIOLOGY AND BIOTECHNOLOGY

- The Cell. Definition of the cell. Differences between prokaryotic and eukaryotic cells. Study of the main organelles: cell membrane, cytoplasm, and nucleus. Mitochondria and ribosomes. endoplasmic reticulum;, Golgi complex;lysosomes.
- The cell cycle: Interphase (G1-S-G2 phases) and M-phase
- Animal and plant cells
- Hydrocarbons
- The key-role of Carbon
- Types of organic compounds:polymers
- Hydrocarbon exploitation
- Key-biological molecules: carbohydrates; proteins; lipids.
- Food allergies; food intolerances; celiac disease.
- A balanced diet; food pyramid; problems caused by an unhealthy diet.
- Orientamento: Fermentation of Yoghurt and the ChemistryBehind it
- Orientamento: The production of organic soap
- Beer: the brewing process

GENERAL ENGLISH

Ripasso delle strutture grammaticali e delle funzionalità comunicative della lingua inglese.

Revision: verb tenses (past simple, used to and present perfect); the passive voice, conditionals (zero, first, second, third), reported speech.

Vocabulary: food and nutrients . Reading, use of English, listening and writing practice (B1-B1+).

.

CULTURE AND CIVICS

- The Celts and Halloween's origins.
- History of Le Corbusier
- Friedrich Wohler: founding modern organic Chemistry.
- Antoine Lavoisier and Marie-Anne Paulze: a chemical revolution
- Maria Goeppert-Mayer: the nuclear shell model