



Istituto Tecnico Statale
CARLO CATTANEO - San Miniato (PI)

Programma svolto

Anno Scolastico 2023-24

Classe e sezione	4°BS – “Biotechnologie sanitarie”
Materia	Lingua inglese
Docente	Giulia Calloni
Libro/i di testo adottato/i	Revellino P., Schinardi G., Tellier E., <i>Growing into old age</i> , CLITT Zanichelli Peter May with Francis Treloar, <i>COMPACT B2</i> , Cambridge
Ore di lezione effettuate	84

Per gli obiettivi, le metodologie e le competenze specifiche si fa riferimento al Documento di programmazione disponibile sul sito della scuola.

Contenuti

Module 1 - Nutrition

- A Balanced Diet
- Vitamins to keep your immune system strong
- Fuel for growth
- The Mediterranean Diet and its benefits

Module 2 – Citizenship: Green Chemistry

- What is Green Chemistry?
- Aims/purposes of Green Chemistry
- What is Green Chemistry based on?
- The inventors of the 12 principles of Green Chemistry
- The 12 principles of Green Chemistry

Module 3 - Preparazione certificazione FIRST B2 e prove Invalsi (Reading comprehension and listening)

- UNIT 1: Living day to day: present tenses; present simple in time clauses; adjectives ending in *-ed* and *-ing*, character adjectives; adjectives prefixes and suffixes: *-able*, *-al*, *dis-*, *-ful*, *-ic*, *im-*, *-ish*, *-itive*, *-ive*, *-ous*, *un-*, *-y* (from "COMPACT B2")
- Revision of Grammar, Vocabulary, Use of English. Practicing Reading, Writing, Listening, Speaking in preparazione alle prove INVALSI classe quinta (*Photocopies provided by the teacher*)

Module 4 - Diseases in the modern world

- ☐ Neurodegenerative diseases
 - Dementia as umbrella term
- ☐ Alzheimer's diseases
 - Overview
 - AD stages
 - AD treatment
- ☐ Parkinson's diseases
 - Overview
 - PD stages
 - PD treatment
- ☐ Cardiovascular diseases
 - Overview
 - Heart Attack
 - Stroke
 - Symptoms and risk factors for stroke

Module 5 – Biotechnology

- ☐ Biotechnology
 - Overview: biotechnology in medicine, agriculture and environment
 - ☐ The Human genome Project
 - ☐ Bioremediation
 - Overview
 - Meet the Microbes Eating the Gulf Oil Spill
 - ☐ GMOs
 - Overview
 - Advantages: pest resistance, Disease resistance, Tolerance to drought and cold, Nutrients
 - Disadvantages: Environmental impact, Health, Economics, Ethics
 - ☐ Biotechnology and medicine
 - Reproductive technologies
 - Insulin for diabetes
 - Gene therapy
 - Infectious diseases
 - Vaccines
 - ☐ What are Stem Cells?
 - Embryonic stem cells
 - Adult stem cells
 - ☐ Cloning
 - Dolly the sheep
 - ☐ Jurassic Park
 - Reasons why dinosaurs cannot be cloned
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L'insegnante
Prof. Nome e Cognome

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Gli alunni

Nome Cognome

Nome Cognome

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