

Libro di testo: *A matter of life, English for Chemistry, Biology and Biotechnology*, 4th Edition, Paola Briano, Maria Grazia Anerdi, Edisco Editore, 2023

Argomenti:

1) *More wonders of chemistry:* Organic chemistry in daily life; Aromatic compounds vs aliphatic compounds; Polymers; The exciting world of synthetic polymers, Soaps and detergents;

2) *The chemistry of the living world:* What is biochemistry?; Carbohydrates; Proteins; Lipids; Nucleic acids;

3) *The chemistry of materials:* Material chemistry; Types of materials; Properties of materials;

4) *Microbes and biotechnology:* Microbes: the factory of everything, Prokaryotes vs eukaryotes, Bacteria and viruses, Eukaryotic microorganisms (fungi, protozoa, algae), Growth requirements for microbes.

What is biotechnology?, The dazzling colours of biotechnology, Applications of biotechnology: environmental, agricultural, medical purposes, industrial (*Summary provided by the teacher*);

5) *The human body: The Human body and its defences:* Anatomy and physiology; A complex structure, The immune system, Immunity, The cells of the immune system, Vaccines, *Diseases:* Disorders of the immune system, Neurodegenerative diseases, Cardiovascular diseases, Diabetes.

6) *Food world:* Healthy eating, How to read food labels, Food preservation, What is food safety?, Food-borne pathogens, Allergies and intolerances, Unhealthy weight, Eating disorders.

Civilization: DNA the molecule of life: Rosalind Franklin.

Civic Education: Addictions: smoking, alcohol, drugs, teens and smartphones (*summary provided by the teacher*).

Durante il mese di febbraio la classe è stata impegnata nella preparazione delle Prove Invalsi usando il seguente libro di testo: *Goals. Get involved! B2, INVALSI trainer B1/B2*, di G. Fruendi, Janet Borsbey, Ruth Swan.

La docente, Miriam Barbera

Parma, 30 maggio 2025