



Istituto Tecnico Industriale Statale "Q. Sella"
13900 BIELLA



Anno Scolastico 2025/2026

CLASSE V sez. A

Indirizzo: Chimica e Materiali

DISCIPLINA	LINGUA INGLESE
DOCENTE	GRAZIA SEMPREVIVO
TESTO/I ADOTTATO/I	A Matter of Life: English for Chemistry, Biology and Biotechnology.

Biella, 08.05.2026

La Docente
Grazia Semprevivo



PROGRAMMAZIONE DI DIPARTIMENTO

MODULE 1 – CULTURAL MATTERS (appunti forniti dalla docente)

American Voting System
American government system
BREXIT
The British Political system
The English Parliament
The European Election
The Single Market in the E.U.
The Industrial Revolution
Victorian Age

MODULE 2 – ORGANIC CHEMISTRY

Organic Chemistry
Polymers
Synthetic Polymers
Organic Chemistry of Soaps and Detergents
Carbohydrates
Proteins
Lipids
Vitamins

MODULE 3 – POLLUTION

Types of materials
Properties of materials
Industrial Processes
Water Pollution
Non – renewable energy sources: oil, natural gas, coal

MODULE 4 – MODERN CHEMISTRY (appunti forniti dalla docente)

The beginnings of modern chemistry: R. Boyle and A. Lavoiser
The periodic table of elements
Techniques of modern gene technology:
PCR; Gel Electrophoresis; Blotting; Gene Insertion; Restriction
Separation processes: Chromatography; DNA Electrophoresis



PROGRAMMA SVOLTO

METODI UTILIZZATI

Lezioni Frontali
Gamification
Cooperative Learning
Peer – to – peer learning activities

MEZZI E STRUMENTI

Libro di testo
Appunti forniti dalla docente
Piattaforme online e video approfondimenti

VERIFICHE

Verifiche orali, verifiche scritte: multiple choices, open questions, fill in the gaps.

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Water Pollution

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The beginnings of modern chemistry

Robert Boyle and Antoine Lavoiser

The periodic table of elements.