



Ministero dell'Istruzione e del Merito

ISTITUTO DI ISTRUZIONE SUPERIORE "J. TORRIANI" - ISTITUTO TECNICO - LICEO SCIENTIFICO Via

Seminario, 17/19 - 26100 CREMONA - Tel. 0372 28380

ISTITUTO PROFESSIONALE –Sede associata “ALA PONZONE CIMINO”

Via Gerolamo da Cremona, 23 - 26100 CREMONA - Tel. 0372 35179

E-mail: cris004006@pec.istruzione.it, cris004006@istruzione.it, www.iistorriani.it

PROGRAMMA SVOLTO **A.S. 2022/2023**

DOCENTE:	Ilaria Bianchi
DISCIPLINA:	Lingua Inglese
CLASSE:	5A MAT

Per ogni Modulo svolto vengono indicati i relativi contenuti affrontati.

MODULO	CONTENUTI
Literary Links (reading of the adapted version of the novels “The Strange Case of Dr Jekyll and Mr Hyde” and “Brave New World”; photocopies, videos) *	<p>R.L.Stevenson: “The Strange Case of Dr Jekyll and Mr Hyde”: plot and characteristics of the novel, themes.</p> <p>A. Huxley: “Brave New World”: plot and themes.</p> <p>Reading of the article “ A Brave New World? How genetic technology could change us”</p> <p>Genetics in fiction (slides)</p> <p>M. Shelley's “Frankenstein or The Modern Prometheus” https://www.bbc.co.uk/bitesize/guides/z2s3j6f/revision/1 brief plot and themes Viewing of the film “ Frankenstein the Young”</p> <p>Guided analysis of the extract “ The Creation of the Monster”</p> <p>Primo Levi: chemist and writer (video and summary): https://youtu.be/Zc8WPO4HKas</p> <p>The War Poets: Brooke and Owen. Analysis of the poems "The Soldier" and "Dulce et Decorum Est"</p>
SCIENCEWISE MODULE 5 : Organic Chemistry and	<p>The chemistry of food</p> <p>Carbohydrates; mono-, di- and polysaccharides</p> <p>Proteins, the functions of proteins, the structures of the body formed from</p>

Biochemistry(+)	
------------------------	--

C.F.: **80003100197** – Cod. Mecc.: **CRIS004006**
 Certificazione di Sistema Qualità Norme **UNI EN ISO 9001**

Pag. 1/3

photocopies)*	<p>protein</p> <p>Lipids and fats and their functions</p> <p>Vitamins and minerals, trace minerals</p> <p>Food allergies and intolerances</p>
SCIENCEWISE MODULE 5 : Polymers (+ video activities)*	<p>Organic chemistry and biochemistry</p> <p>Polymerization</p> <p>The key role of carbon</p> <p>Functional groups and organic families</p> <p>Video: a brief history of plastics https://youtu.be/9GMbRG9CZJw</p> <p>Classifications of polymers, key characteristics, internal bonding mechanism, structure.</p>
SCIENCEWISE MODULE 6: Biotechnology (+ videos and photocopies)*	<p>Biochemistry, biology, genetics</p> <p>Video activity: Riccardo Sabatini's TEDtalk "How to read the genome" https://www.ted.com/talks/riccardo_sabatini_how_to_read_the_genome_and_build_a_human_being</p> <p>Genes and DNA (slides)</p> <p>Sanger's DNA sequencing technique (video activity and photocopy) DNA and the secret of life</p> <p>Cellular characteristics: prokaryotic and eukaryotic cells</p> <p>Biotechnology and its innovations</p> <p>Genetic modification and artificial cloning</p> <p>GMOs: benefits and risks</p> <p>Introduction to genomics: https://www.genome.gov/About/Genomics/Introduction-to-Genomics#one</p> <p>https://www.genome.gov/genetics-glossary/Deoxyribonucleic-Acid</p>

PENICILLIN (videos and photocopies) * SCIENCEWISE MODULE 7: Science and Health (+ photocopies)*	Video activity (https://youtu.be/JR17iJqFGiw) Extract from the article “Penicillin Production” The role of the immune system Pathogens: viruses, bacteria, fungi Prokaryotic organisms, eukaryotic microorganisms Growth requirements for microbes The importance of vaccines
CHROMATOGRAPHY (photocopy)*	HPLC Chromatography and its fields of application: Pharmaceutical and clinical testing, food and beverages

C.F.: **80003100197** – Cod. Mecc.: **CRIS004006**
 Certificazione di Sistema Qualità Norme **UNI EN ISO 9001**

Pag. 2/3

ETHANOL (photocopy)*	Production Fermentation Distillation
Citizenship and lessons with mothertongue teacher (materials produced by the students)	Sahel, the end of the road (storytelling) Peace ambassadors (role-playing)
Scholarly Papers (photocopies and slides)*	The structure of Scientific Papers How to read scientific literature
ULTIMATE INVALSI	Reading and listening activities: preparazione alla prova Invalsi di Inglese

*** Materiali forniti agli studenti nella classe Google di Inglese.**

Il programma è stato visionato e approvato dai rappresentanti degli studenti della classe

C.F.: **80003100197** – Cod. Mecc.: **CRIS004006**
 Certificazione di Sistema Qualità Norme **UNI EN ISO 9001**

