



LICEO CLASSICO E MUSICALE STATALE
 "Annibale Mariotti"
 PERUGIA

PROGRAMMA SVOLTO A.S. 2022 /2023

LICEO GINNASIO STATALE MARIOTTI	
06 GIU 2023	
PROT. N.	944
TIT.	✓ CL. 4 FASC.

PROF. ssa Paradisi Samantha

CLASSE I F Liceo

MATERIA INGLESE CONVERSAZIONE P.O.F

Programma svolto IF	Testo: <i>English Vocabulary in Use – Upper-intermediate</i> , ed. Cambridge University Press, third edition.
MODULES and partial Ref. to Units	
1. CURRENT AFFAIRS	Culture- BBC broadcast of Queen Elisabeth 's funeral. Commenting and focus on the expressions/vocabulary. BBC VIDEO on self-help.
2. Focus Language 1	Unit 76; common collocations with compounds 'conversation practice upon. Binomials in the common spoken practice - partial ref unit 77.
3. Focus micro – language 2:	BBC 6 mins video on new loanwords and expressions (<i>shadenfreude</i> , to ride the <i>Zeitgeist</i>)
4. PHONETICS	Changing words' stress. Partial ref unit 80. Homophones in English: use extension and conversation practice upon.
COMPETENCE BUILDING 1: Students' presentations. Vocab Focus and expansion	Pastry therapy and PTSD. The evolution of the car industry. Technological advances and performance. Synchronized swimming; description of some recurrent compound forms (noun-noun). On-line purchases- pros. Places: Mexico, Positano, Barcelona, Lisbon The personality colour theory, how to improve our memory. Inflation. Summer festivals and concerts in Milan Florence Presentation on the most socially engaged contemporary supermodels. The couples who have recently caught the readers' attention and who have become the target of paparazzi: a possible red thread among them. Glamorous fashion designers who changed the fashion trends (V. Westwood, C. Chanel etc.). Figures who changed the cinema scene: Marilyn Monroe. UN New York international stage experience Two female scientists, who changed the scientific research: R. Franklin and Super cars: engineering, mechanics, and exclusive design features. Unicum models. The 2023 METGALA: purpose, designers and representative celebrities. The history of Ian Fleming and the character of James Bond in the British and international culture. Historical soundtracks Presentation on the Bristol born street artist Barkey: motifs and societal engagement.
COMPETENCE BUILDING 2 DEBATING technique	Conversation practice on parties' strong and weak points one must comply with or avoid in order for the party to be successful and not to incur into unexpected trouble.

Natural Sciences and English CO-TEACHING

Topic 1

Herbivores, carnivores, photosynthesis, chloroplasts etc.

Ppt sharing on animal and vegetable cells and their components (the cell's organelles); Cytology vocab. The cell envelope. The cells in living organisms. The eucaryotic cell: the rough endoplasmic reticulum, DNA, the Golgi Apparatus. Experiments by Pasteur, Spallanzani and Redi.

Prokaryotes and eukaryotes: structure. Chloroplasts and organelles in the vegetal cells. Photosynthesis. Focus essential vocab. The phospholipids' membrane: functional aspects.

Topic 2

Mitosis and cytokinesis: Khan Academy video contribution.

Topic 3

DNA replication, filaments, and fragments. DNA transcription. Video watching and focus micro-language and vocab in use.

Topic 4

Glucose, blood sugar, hormones (insulin and glucagon). Saturated vs unsaturated fats, atoms chains, industrial hydrogenation in the food industry. Proteins (structural, muscular, transport, functional) and lipids. Food nutritional value in a varied diet.

Chemical characteristics of olive oil.

Fats cooked at high temperature: health risks run. Glycemic index; cancerous substances in foods.

Topic 5

Hypotonic, isotonic and hypertonic solutions. ATP in energetic processes: synthesis, active transport and muscles' contraction. Anabolism and catabolism.

Topic 6

DNA nucleic acid structure; introduction to Rosalind Franklin

Topic 7

Mitosis and meiosis plus the first Mendel's law; Beyond Mendel's laws: biological diversity and its founding principles. Hereditary factors in *poligenia*. Mendel's laws, hybrids. Pearson's video on meiosis and ppt sharing. Mendel's 3rd law and definition of 'epistatic gene'. Genetic mutations.

Topic 8

Haemoglobin and myoglobin: structure and functions. Polygenic hereditary factors and pleiotropy, polygyny and complete and incomplete dominance.

Perugia, 10. Giugno 2023

Prof.ssa Paradisi Samantha

