

ENGLISH

In tenth grade, an emphasis is placed on critical thinking, reading, and writing the thesis-driven essay. Students are expected to continue to improve their skills of literary analysis, building upon ninth grade, and are also exposed to a variety of text types, further honing their skills of literary analysis. During the course of the year, students will become proficient in discussing and analyzing novels, non-fiction texts, and poetry. Students are encouraged to cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text. Moreover, students seek to determine the meaning of words and phrases as they are used in the text, including figurative and connotative meanings, and also analyze the impact of specific word choices by the author and their importance in determining the meaning and tone of a text.

Grade ten also focuses on writing clearly and coherently in a persuasive context. Students are expected to support claims using valid reasoning and relevant evidence. Students write routinely over both extended and short time frames for a range of tasks, purposes, and audiences. They use the writing process to write well-organized, multi-paragraph texts, with an introduction, a clear and arguable thesis statement, relevant supporting details, precise language, formal style and appropriate conclusion. Student writing incorporates the use of technology in each stage of the writing process during development, collaboration, and production.

Tenth graders initiate and participate effectively in a range of collaborative discussions with diverse partners on topics, texts, and issues, building on the ideas of others and expressing their own clear and persuasively. They also become comfortable with presenting information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and so that style is appropriate to purpose, audience, and task.

SCIENCE

In 10th grade we focus on developing the following science and engineering practices or skills: Asking questions and defining problems; Developing and using models; Planning and carrying out investigations; Analyzing and interpreting data; Constructing explanations and designing solutions; Engaging in argument from evidence; Obtaining, evaluating, and communicating information.

We develop these skills by studying the following content areas:

Chemistry: Structure, properties, & interactions of matter; The Periodic Table; Chemical reactions; Stoichiometry.

Biology: Cellular Biology, Bioenergetics, Biochemistry, Genetics

SOCIAL STUDIES

Grade 10 US History starts where the grade 8 course ended at the Civil War. Students trace the development of the United States into a global power. They develop their awareness of civics, government, and Human Rights. Topics include: US Civil War, Immigration, The Great Depression, The Cold War, Civil Rights and Foreign Policy in the Middle East. Emphasis is placed on honing students' research skills by studying a variety of informational texts and primary sources.

IT INFORMATION TECHNOLOGY

Students can select between the four subjects: *Digital Media*, *Digital Literacy*, *Introduction to Programming* and *3D Graphics*. The Digital Media students are responsible for all aspects of the school's Yearbook production. In Digital Literacy, students learn about image-editing compositions and video editing. In Introduction to Programming, 9th graders will learn how to code in a programming language. In this course students will work with Blender to apply concepts of Geometry, Physics and Computer Graphics.

ART

The Grade 10 artist develops fundamental painting, drawing, and sculpting techniques in a variety of media. Students analyze artworks in relation to pivotal movements in history and various cultures.

ESL

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

English for Speakers of other Languages (ESL) is designed to teach students to become socially and academically competent in English. Students who demonstrate beginner and intermediate levels are designated as part of the program. Secondary students are given support based on their individual needs and may receive support in small ESL groups, sheltered classes for science or history, or supported or modified immersion in mainstream grade level classes. Beginner ESL students receive more time with ESL teachers in sheltered classes and support working on learning basic vocabulary and structures.

ESL teachers regularly monitor student progress during the year, as students improve, to modify the program according to student needs. This is done through work samples, observations, and official testing. Students are mainstreamed from ESL when they demonstrate an advanced proficiency in the areas of listening, speaking, reading and writing. On average, students are in the ESL program at CAISL for about 2 years, but this can vary depending on background in English and other factors.

PNL

LÍNGUA PORTUGUESA 10

A disciplina de Língua Portuguesa 10 tem como objetivo principal proporcionar a aquisição, numa perspetiva diacrónica, de uma visão panorâmica da literatura portuguesa que permita ao aluno caracterizar épocas, períodos e correntes literárias da nossa história, para nela situar os autores e as obras estudadas. Assim, do séc. XVI ao séc. XX, os alunos estudarão: uma peça de teatro vicentina; a lírica camoniana; o sermão barroco; um romance queirosiano; o texto memorialístico e o texto não-literário. Desta forma, promove-se a análise textual aliada a uma reflexão sobre o uso de diversas estratégias linguísticas para construir significados; reflete-se sobre as diferentes características de cada género de texto analisado; redigem-se diferentes tipos de texto (texto persuasivo, texto expositivo, outros textos criativos) e organizam-se apresentações orais formais com recurso a instrumentos multimédia. Serão revistos alguns aspetos da gramática portuguesa, numa perspetiva de que a língua é o suporte da literatura.

PE PHYSICAL EDUCATION

The 10th grade PE course is designed to teach students about their physical selves and create enthusiasm for physical activity, as well as develop their physical skills and appropriate behavior involving sportsmanship and sports etiquette. We accomplish this goal by providing our students with a balanced program that builds a strong foundation in physical fitness, develops sport performance skills to an advanced level, lead-up games, and sports at an intermediate-to-advanced level of understanding (tactics).

MATH

In order to cultivate an in-depth understanding of mathematics, students focus on developing their process skills through mathematical practices. They make sense of problems and persevere in solving them, reason abstractly and quantitatively, construct viable arguments, and critique the reasoning of others. Students model with mathematics and use appropriate tools strategically. They attend to precision, look for and make use of structure and look for and express regularity in repeated reasoning. Process skills are the essential elements for the mastering of math and will be developed through the content shown below. In Algebra II, students produce graphs of functions with and without technology, while identifying important features of the function and also solve systems of equations using substitution, elimination, and matrix methods.

Students solve quadratic equations with factoring, completing the square, and with the quadratic formula, make intelligent decisions regarding which method should be used in a given circumstance, and also explore many applications of quadratic functions.

Students use arithmetic and geometric sequences to solve problems, and use binomial expansion as a means of developing greater skill with exponents and as a means of reinforcing their skill with finding patterns.

They learn the fundamental counting principle and the formulas for permutations and combinations and apply these ideas to problems involving counting. Students also examine patterns of combinations found in Pascal's triangle and apply these patterns to binomial expansions. Students will derive the equations for the conic sections – parabola, ellipse, hyperbola – from initial conditions and solve a variety of problems involving conic sections. Finally, tenth graders investigate mathematical patterns that require employing a variety of algebraic skills and knowledge and will present this investigation in a paper using correct language and notation.

WORLD LANGUAGES

In grade 10 CAISL offers Portuguese, French, and Spanish as Foreign Languages at the Beginner, Intermediate, or Advanced levels as well as Chinese at the Beginner level. The goal of these course is to interest the students in studying a foreign language and to develop in them a basic knowledge of the language so that they will be able to understand, express themselves orally, and write with simple construction about their immediate surroundings and daily activities. These courses enable the students to expand their curiosity of another culture. The courses stress oral expression with a gradual progression in reading and writing.

CHOIR, ORCHESTRA &

GUITAR

Grade 9 students have three music options – choir, string orchestra, or introductory guitar. Choir is a year-long class with an opportunity to learn and grow in the area of vocal music. Orchestra is only available for advanced string performers with prior consent. Guitar will work on rudimentary skills for a beginner both individually and as a group. All ensembles perform regularly throughout the year.

DRAMA & SCENE STUDIES

Students have two Theater Arts options that are both a year-long. Drama focuses on performance skills and one major production during the school year. Scene Studies focuses on learning how to direct, design, and write for theater.

10TH
GRADE

GRADUATION REQUIREMENTS

A minimum of 27 academic credits (1 credit = 1 full year course) during Grades 9-12 is required for graduation, with the following breakdown:

English — 4 credits

Math — 3 credits

Science — 3 credits

Social Studies — 3 credits

Foreign Language — 2 credits

Physical Education — 3 credits

Computers — 1 credit (credit may be fulfilled by passing a department-issued exam)

Fine Arts — 1 credit

Electives — 7 credits (defined as any class taken over the normal subject credit load)



Carlucci American International School of Lisbon

*is a student-centered educational community
in which we challenge ourselves and each other
to do our best and to make positive contributions
to our diverse and ever-changing world.*

GR 10

CURRICULUM OVERVIEW



Carlucci American International
School of Lisbon (CAISL)

Curriculum Overview
Grade 10



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