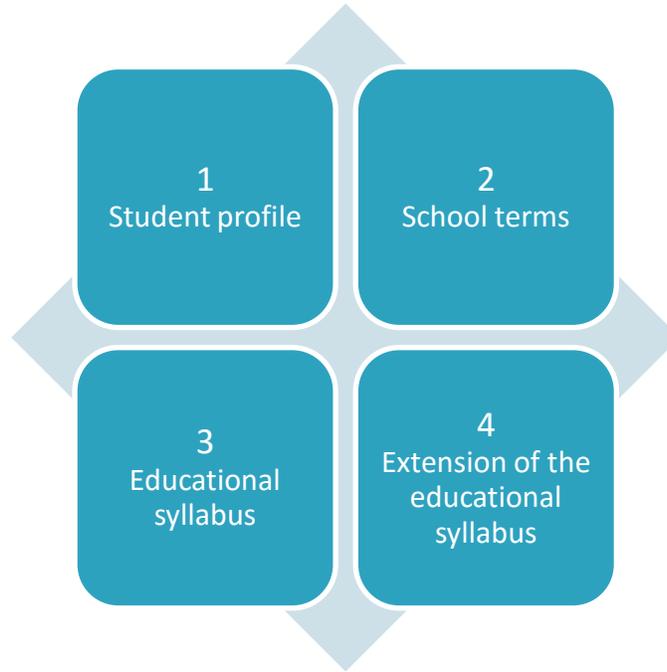


4. STUDY PLANS



4.1. EDUCATIONAL, CULTURAL AND PROFESSIONAL PROFILE OF THE LYCEUM STUDENT BASED ON THE NATIONAL DIRECTIONS (D.P.R 15/03/2010, N. 89)

EDUCATIONAL, CULTURAL AND PROFESSIONAL PROFILE OF THE LYCEUM STUDENT LEARNING RESULTS OF THE SCIENTIFIC LYCEUM

“The curriculum of the scientific lyceum is centred on the study of the connection between scientific culture and humanistic tradition. It favours the acquisition of knowledge and methods of mathematics, physics and natural sciences. It guides the student to study and develop knowledge and the ability to mature the necessary skills to follow the development of the scientific research and technology, and to identify the interaction between the different forms of knowledge, ensuring a mastery of foreign languages, technology and the related methodologies, also through laboratory activities” (article 8, comma 1).

At the end of their studies, besides reaching common learning goals, the students will:

- Have acquired a balanced cultural education in both the humanistic and scientific fields
- Be able to understand the key elements in the development of thought, considering the historical dimension, and the connection between the methods of knowledge in mathematics, experimental sciences and humanistic studies
- Be able to understand the relationship between scientific thought and philosophical reasoning
- Be able to understand the fundamental framework of argumentation and demonstration, by mastering the formal logical language, and using it to identify and solve problems of different nature
- Be able to use calculation and representation tools for problem modelling and solving
- Have achieved secure knowledge of the fundamental contents of Physics and natural sciences (Chemistry, Biology, Earth Sciences, Astronomy) and, through the systematic use of labs, a mastery of micro languages and the methods of personal investigation into experimental sciences
- Be aware of the reasons that brought to scientific and technological development, in relation to the needs and questions of knowledge in different contexts, with a critical view of the technical and ethical implications of scientific achievements
- Be able to understand the potential of applying scientific results in everyday life

4.2. SCHOOL TERMS

The Lyceum Marinelli organises the school year as follows:

First term: from the beginning of the school year to 31st October.

Second term: from November 1st to the end of the school year.

This division, defined by the Teaching Body for the 2015/2016 school year, was included by the School Principal in the educational policies and thus added to the current Three-Year Educational Plan

4.3. EDUCATIONAL SYLLABUS

ANNUAL HOURS OF LESSON					
Subjects	FIRST TWO-YEAR CYCLE		SECOND TWO-YEAR CYCLE		FIFTH YEAR
	I	II	III	IV	V
Italian language	132	132	132	132	132
Latin language	99	99	99	99	99
Foreign language and literature 1 (English)	99	99	99	99	99
History and Geography	99	99			
History			66	66	66
Philosophy			99	99	99
Mathematics*	165	165	132	132	132
Physics	66	66	99	99	99
Natural sciences, chemistry and geography**	66	66	99	99	99
Graphic arts and art history	66	66	66	66	66
Physical education	66	66	66	66	66
Religion or alternative activities	33	33	33	33	33
TOTAL ANNUAL	891	891	990	990	990

WEEKLY HOURS OF LESSON					
Subjects	FIRST TWO-YEAR CYCLE		SECOND TWO-YEAR CYCLE		FIFTH YEAR
	I	II	III	IV	V
Italian language	4	4	4	4	4
Latin language	3	3	3	3	3
Foreign language and literature 1 (English)	3	3	3	3	3
History and Geography	3	3			
History			2	2	2
Philosophy			3	3	3
Mathematics*	5	5	4	4	4
Physics	2	2	3	3	3
Natural sciences, chemistry and geography**	2	2	3	3	3
Graphic arts and art history	2	2	2	2	2
Physical education	2	2	2	2	2
Religion or alternative activities	1	1	1	1	1
TOTAL WEEKLY	27	27	30	30	30

*with information technology **Biology, Chemistry, Earth sciences

4.4. EDUCATIONAL PLAN EXTENSION

The plan extension provides the following options:

SECOND COMMUNITY LANGUAGE

The school has extended the educational syllabus by increasing the morning lessons from 27 to 30 for the students taking advantage of the teaching of a Community foreign language. These students are divided into groups for German, French or Spanish.

MATHEMATICS AND SCIENTIFIC EMPOWERING

The school offers the students the opportunity to empower their knowledge in the scientific area, focusing on experimental and lab research and IT. The nature, methodology and goals are defined by the Scientific Departments.

ARTISTIC-SCIENTIFIC ENHANCEMENT

Beginning with the 2016/2017 school year, the Marinelli Lyceum has enriched the educational plan with an artistic-scientific strengthening project, which wants to specially focus on the artistic, landscape, cultural and environmental aspects of its territory.

ECDL

The Marinelli Lyceum, established as a Test Centre, gives support to students by the use of the school online platform, by the organisation of one-to-one classes and specific courses.

DIGITAL SCHOOL

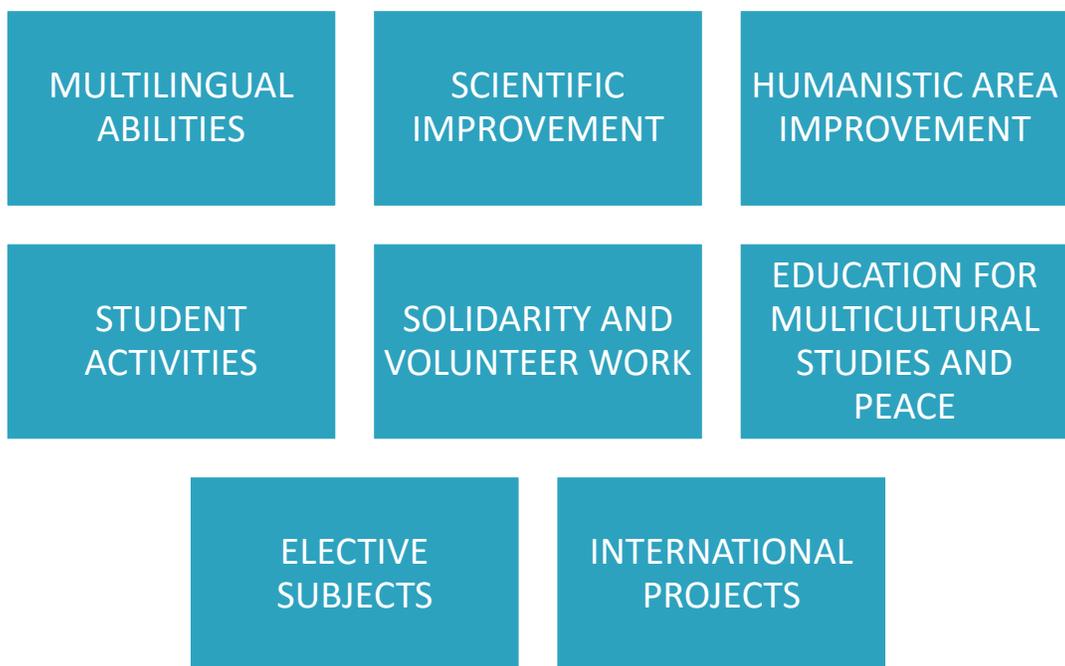
The Lyceum pays great attention to digital education and to new learning environments by the constant use of technology in everyday teaching. The quality and the speed of the Internet connection have been improved by GARR (Italian Research & Education Network), the extension of the Wi-Fi network in

the school, the increasing number of classes equipped with interactive blackboards and the updating of computer labs. Recently 2.0 Classes have been started up, mainly in the first two years of study: this project will be gradually extended to the higher classes. The school online platform, the flipped class experimentation and the digital register are also part of the school digital development. The Marinelli Lyceum has its own Plan, which is consistent with the National Plan of Digital Education and monitors the applications for the European structural funds (PON). A digital developer has been appointed as supervisor.

SCHOOL SCHEDULE

The weekly timetable is organized as follows:

- Classes which have 27 hours: three days from 8.05 am to 01.05 pm and three days from 8.05 am to 12.05 pm.
- Classes which have 30 hours: six days from 8.05 am to 01.05 pm.
- For classes in the two-year cycle, with a short-week option: one afternoon at school with physical education lessons.
- For classes in the three-year cycle, with a short-week option: two afternoons at school (one with physical education lessons).
- For classes in the three-year cycle with the linguistic option (a second Community language): one afternoon at school with two lessons.



MULTILINGUAL EDUCATION

In the respect of the educational policies and the tradition of the Lyceum, the regard and the promotion of multilingualism are an important feature of the educational syllabus. In addition to the extracurricular courses of second Community languages, the Lyceum also offers courses for first and second Community language certifications and experimental CLIL lessons.

SECOND COMMUNITY LANGUAGE

In regard of the first two years, the Marinelli Lyceum has expanded the educational syllabus with an increase of curricular hours from 27 to 30 during the morning for students who choose a second Community language. Students who request it are organised in learning groups for the German, French or Spanish language. Those who start the learning of a second Community language during the first two years can continue to study it, for two hours per week, in the afternoons of the following years; for students that will enrol for the first year in 2016-2017, this foreign language will become an optional curricular subject in all effects from the year 2018-2019.

PREPARATION COURSES TO CERTIFICATIONS IN THE 1ST AND 2ND LANGUAGE

Languages certification courses are mainly addressed to students of the fourth and fifth year, in view of such exams as the FCE (University of Cambridge through the British School); ZD, Goethe Zertifikat (Goethe Institut); DELF (Alliance Française) and DELE for Spanish.

CLIL (CONTENT AND LANGUAGE INTEGRATED LEARNING IN A FOREIGN LANGUAGE)

In the context of the revision of the Secondary School Rules, article 10, comma 5, of the Regulation (DPR no. 89/2010) introduces also in the scientific Lyceum the teaching of non-linguistic disciplines (DNL) in foreign language according to the CLIL methodology.

SCIENTIFIC AREA EMPOWERING

Listed below are the empowering projects in the scientific area.

MATHEMATICAL EMPOWERING REFERRED TO THE FIRST TWO-YEAR CYCLE

The Lyceum offers interested students mathematical empowering, giving particular importance to laboratory activities in a IT environment. The activities are intended to introduce students to the programming environment.

BASIC MATHEMATICS COURSE

The function of the course is to prepare students to pass the tests that universities organise for admission and to increase students' basic mathematics skills in the field of algebra, analytical geometry, trigonometry and plane geometry to allow them to attend university courses profitably.

BIOLOGICAL AND CHEMICAL SCIENTIFIC AND LABORATORY EMPOWERING

The school offers interested students in the 2nd, 3rd and 4th year the opportunity to empower scientific skills in the afternoon, giving special attention to biological and chemical laboratory activities.

MATHEMATICS AND SCIENTIFIC COMPETITIONS

The empowering of students' skills and competences and disciplinary and cross-disciplinary study sees a wide participation of the students of the Lyceum in Mathematics, Physics, Chemistry, IT, Science and Neuroscience competitions, at different levels, from local to the national ones.

MATHEMATICS COMPETITIONS

Preparatory and study activities for participation in external competitions are provided by the school.

TRAININGS AND INTERNSHIPS

- Weekly Mathematics trainings for interested students
- Internships organised by Mathesis in collaboration with the Italian Mathematic Union (UMI) and the "Scuola Superiore di Udine" (a university advanced course) in February and April
- Summer Maths Camp: born from an initiative of the Marinelli Lyceum, it is aimed at secondary school students of the province of Udine who are Maths fans, participants in Maths competitions and games (August)
- Maths Laboratory: it regards extra-curricular topics on which single and groups of students are invited to do research and produce materials.

SCIENCE COMPETITIONS

CHEMISTRY EMPOWERING AND CHEMISTRY GAMES

The course is aimed at students in the last three years who are particularly motivated in the study of Chemistry with a view to their future scholastic choices. The course proposes to:

- Provide students with better skills
- Prepare students to pass the entry test to University faculties which require deep knowledge of the subject
- Value excellence through participation to Chemistry Games

NATIONAL SCIENCE OLYMPIC GAMES

The Lyceum offers, both in curricular and extracurricular hours, activities in preparation for the Science Olympics for students who are particularly interested in the field of natural sciences, with training and selection tests.

NATIONAL NEUROSCIENCES OLYMPICS

They are organised by the Science Centre “Immaginario Scientifico” in Trieste; Marinelli students participate with the science teachers’ coordination after a complex training.

HUMANISTIC ENHANCEMENT AND COMPETITIONS

The Scientific Lyceum encourages projects, activities and initiatives in the artistic and humanistic fields, with the objective of developing and increasing the students' interest in culture in the widest meaning of the term. For this purpose there are different initiatives such as the participation of whole classes in theatre performances, film projections or conferences, also in foreign languages.

The educational syllabus offered to students is furthermore enriched with other activities:

CINEMA

The purpose of the activity is to promote film making processes and analysis, to offer at the same time organisational support to the activities in the audiovisual field that are developed inside the school, and give both teachers and students information about the initiatives present on the territory.

PAESTUM PROJECT AND ACTIVITIES IN COLLABORATION WITH THE SFA (FAS: FRIULAN ARCHAEOLOGICAL SOCIETY)

The Lyceum contributes to the organization of conferences, camps in Paestum and the possible summer work in archaeological sites in Friuli.

ITALIAN OLYMPICS

The Italian Olympics are individual competitions testing the Italian language skills of secondary school students.

COMPETITIONS AND PHILOSOPHY OLYMPICS

The Lyceum participates to the "Philosophy Olympics" and other philosophic competitions. An 8-10 hour inter-disciplinary afternoon course is set up aiming at developing students' philosophical argumentative skills.

STUDENT ACTIVITIES

These activities are supported by CRUP Foundation:

MARINELLI GOSPEL CHOIR

A group of students meet up every week to prepare, together with the band, choir performances at important public and school concerts and events.

"MATTIAMMAZZO" DRAMA GROUP

The remarkable interest in drama and the numerous participation of students to the theatre activities promoted by the school and consolidated by a long tradition, have allowed the participation in many events, the most important being the “Palio Studentesco”.

PRELUDIO

Preludio is Marinelli's magazine; it is issued every two months and has recently obtained national recognition. This magazine is considered to be an instrument of communication and expression of Marinelli's students. Its editorial committee, open to the contribution of everyone, is made up of students supervised by a teacher.

READING GROUPS

Various "reading groups" connected with the school library activities have been created in order to involve all the students interested in reading. These groups give students the possibility to meet, exchange books, give their opinions and write their own reviews.

PHOTOGRAPHY GROUP

For some years Marinelli has offered students the possibility of learning the various techniques and phases of photographic art. This activity is directly linked to the teaching of drawing and history of art.

F.A.I. (IEF: ITALIAN ENVIRONMENTAL FUND) SPRING DAYS

The photography group of the Lyceum takes part in the events annually organised by F.A.I., in order to promote and spread the knowledge of our city's environmental and artistic heritage. This promotion is made possible by reliefs, photos and descriptions made by the students and addressed to all the participants of the F.A.I. Spring Days.

CHESS

This initiative aims at introducing students to chess or improving their abilities in the game, developing logical and intuitive skills, attention and reflection.

SOLIDARITY AND VOLUNTARY WORK ASSOCIATIONS

VICINO-LONTANO

This is an association that promotes a literary award called "Premio Terzani", addressed to a network of local schools, regarding the relationship between identity and difference , more precisely the comparison between Western and Eastern culture.

LIBERA

The regional coordination of Libera proposes an educational path towards democracy, legality and active citizenship for students in the 4th year.

“THE CULTURE OF SOLIDARITY: A WRITING COMPETITION FOR YOUNG PEOPLE”

The Lyceum, together with the Province, the Municipality, the "Sport, Cultura, Solidarietà" committee and the AMNIC of Udine, promotes a writing competition for the local school network to reward the work carried out by the worthiest students.

ELECTIVE SUBJECTS

The Lyceum offers after-school lessons that may be chosen by the students to integrate and qualify their course of studies.

HISTORY AND PHILOSOPHY OF SCIENCE

This course is aimed particularly at students in the 4th and 5th year and it regards the history and philosophy of science.

ECONOMIC HISTORY WITH ELEMENTS OF EUROPEAN COMMUNITY LAW

This course aims at enriching the historical culture and the civil awareness of the students, without giving specific professional and technical abilities, according to the goals of the Lyceum.

INTERNATIONAL PROJECTS

STAY ABROAD

Some of Marinelli's classes or groups of students may have the opportunity to go to a foreign country and stay at a school or a cultural association. This project is specially organized for the second 3-year-cycle students, who usually stay abroad for two weeks. Their stay must be planned and agreed upon by the Marinelli Lyceum and the host school or association.

EXCHANGE PROGRAMS

During the last years, the Marinelli Lyceum has organized many exchange programs with high-school classes in countries where English, French and German are spoken. Both the students with their families and the teachers have always considered the experience as highly educational and worth being continued in the future. In recent years, the foreign schools involved have been the following:

- Lee's Summit High School, Missouri, USA
- Sanger High School, California, USA
- Katharineum, Lubeca, Germany
- University of Toronto, Toronto, Canada
- Lycée Général Technologique, Villefranche sur Saône, France
- Shunk Tak, English Catholic College, Hong Kong, Cina
- Kiama High School, Kiama, Australia
- Wil, The Canton of San Gallo, Switzerland
- Wije, Zwolle, Holland

- Tsiskari, Tbilisi, Georgia

INTERNATIONAL MOBILITY

Individual students may attend their fourth year in a foreign country and have their study experience fully recognized and evaluated as soon as they come back to Italy to complete their fifth year in the Marinelli Lyceum.