



International School of Poznan

International Baccalaureate World School no. 002709



## G7 CURRICULUM



## LANGUAGES

### LANGUAGE OF INSTRUCTION: ENGLISH

#### GENERAL SKILLS:

**Themes:** Water, Climate, Air, Catastrophe, Feeding the World, Wildlife, Living Together, Changing Places, Identity.

**Text analysis:** stories - prose fiction and non-fiction, news articles, poems, weather forecast, web pages, historical accounts, still life painting descriptions, fairy tales, folk tales, extracts from stories, novels.

**Writing skills:** journal entries, comparisons, accounts from another perspective, poems, weather forecasts, diary entries, formal letters, stories.

**Projects:** creating an artificial island, comic strips

#### GRAMMAR

word classes; tenses (Present Simple/Continuous; Past Simple/Continuous, Present Perfect; Future Simple, be going to); modal verbs for requests, obligation, advice, possibility, imperatives; questions and answers (yes /no questions and short answers, wh-questions, object and subject questions, question tags, so and neither); verb structures (collocations, state verbs, verb patterns, phrasal verbs, verbs with two objects); nouns.

#### LITERATURE

The course is based on The Holt Reader Elements of Literature. (Grade7 level)

**Texts Selected Within Collections:** "Amigo Brothers" by Piri Thomas, "Rikki- tikki-tavi" by Rudyard Kipling, "The War of the Wall" by Toni Cade Bambara, "After Twenty Years" by O. Henry, Home reading novel: "Hatchet" by Gary Paulsen

**Skills:** Understand plot structure, characterization, point of view, forms of prose, literary criticism; Understand and analyze themes.

**Literary Context:** analyze the structure and purpose of informational materials, comparison and contrast, cause and effect, author's perspective; understand how to summarize, including main idea; understand stereotype and bias.

### HOST LANGUAGE: POLISH

**Lektury:** H. Sienkiewicz, *Quo vadis*, *Latarnik*; A. Mickiewicz, *Dziady, cz. II*, *Świtezianka*, *Lilije*, *Reduta Ordon*, *Śmierć pułkownika*; Ch. Dickens, *Opowieść wigilijna*; A. Fredro: *Zemsta*; I. Krasicki, *Żona modna*.

**Ortografia:** zasady pisowni nazw geograficznych, zasady pisowni wielką literą, zasady pisowni zakończeń wyrazowych: i, ii, ji.

**Gramatyka:** fonetyka, słowotwórstwo, części mowy, części zdania, rozbiór zdania pojedynczego i złożonego. **Sztuka pisania:** opis obrazu i rzeźby; opis przeżyć wewnętrznych; opowiadanie (narracja pierwszoosobowa i trzecioosobowa); list oficjalny; charakterystyka; recenzja, rozprawka.

**Literatura:** rodzaje i gatunki literackie.

### ADDITIONAL LANGUAGES:

#### GERMAN

**Topics:** food and drinks, meals, food preferences, healthy food, ordering food, the weather, say where the student lives, describing of house or flat and own room, the places in a town, say what can be done in a place, directions, tickets, presents, tourist information, clothes, favourite clothes, shopping, problems with clothes, school uniform, holidays, travel, activities on holiday and holiday experiences.

**Grammar:** forms of the verb „essen”, negatives with kein and gern/nicht gern, verb second word order, prepositions with dem/der/dem, modal verbs: können and wollen, give instructions, ask questions, accusative endings, future tense and comparisons.

**Skills and pronunciation:** building longer sentences using linking words (und, den, aber, oder), pronunciation of long and short o and u vowel sounds and ch, v and w, ich, ig and isch and word endings, polite language, reading comprehension (gist and details), working out language patterns, evaluating and improving own (written) work, identifying formality of language and grammar patterns and giving opinions.



## **ADDITIONAL LANGUAGES:**

### **SPANISH**

**Topics:** snacks and drinks, order a snack and pay the bill, describe a house and rooms, furniture and objects, distances, telling the time, daily routine, weekend routine, weather, winter and summer holidays, free time activities, weekend plans, home chores.

**Grammar:** the present tens of regular verbs *-ar, -er, -ir*, the present tens of reflexive verbs, the present tens of some irregular verbs, *ir+a+infinitivo*, prepositions, verbs: *gustar, encantar*, adjectives, interrogativos: *cómo, cuándo, de dónde, cuántos, hay/no hay* – there is/ there isn't.

**Skills:** describing a house and its rooms; saying what you do in a typical day; saying what you do at the weekend; using reflexive verbs; talking about meals; describing the weather; saying what you do depending on the weather; giving more detailed descriptions; expressing opinions, asking and answer questions; creating longer sentences; speaking in present, and future; making a video blog; developing listening and reading skills.

### **POLISH AS ADDITIONAL LANGUAGE**

**Topics:** daily routine, transports, professions, food, Polish traditional food, Christmas traditions in Poland, famous people, countries and nationalities, languages, professions; my hobby, clothes, the appearance, Polish songs and movies, Polish celebrities

**Grammar:** present tenses; nominative case and plural and singular nouns and adjectives, instrumental case of plural and singular of nouns and adjectives; verbs and prepositions requiring instrumental case; numbers

**Project:** Polish legends

**Skills:** gaining knowledge about Polish culture, developing listening and speaking skills, preparing a presentation, giving opinions.

## **MATHEMATICS**

**Numbers:** Operating with rational numbers, using order of operations, percentages, percentage increase and decrease, finding a percentage of a quantity, applying percentages to problems, calculating commission and simple interest, finding a quantity if a percentage of it is given, rates and ratio, direct proportion, working with powers and surds, applying the basic index laws, rationalising the denominator, standard notation.

**Geometry:** Pythagoras' theorem, applying the theorem of Pythagoras to solve right-angled triangle problems, properties of special right-angled triangles, coordinate plane, distance and midpoint formula.

**Algebra:** Algebraic expressions, simplifying expressions with grouping symbols, solving equations with grouping symbols and fractions, applying equations to the solution of problems, changing the subject of a formulae.

## **SCIENCES**

### **BIOLOGY**

**Human body:** Nutrition: balanced diet, role of carbohydrates, lipids, proteins; vitamins and minerals; malnutrition; digestion: digestive system and enzymes; absorption and assimilation; The circulatory system; Arteries, veins and the blood; Heart; Cardiac cycle; Antibodies and antigens; Immunity. Homeostasis; excretion: the role of the kidney, control of blood glucose level; diabetes. Coordination; The nervous system; Neurones; Receptors and senses; The endocrine system: glands and hormones; Reproduction; Male and female reproductive systems; The menstrual cycle; Fertilization; Pregnancy: the role of placenta, development and antenatal care;

**Skills:** using a microscope, performing investigations;



## PHYSICS

**Topics:** Physics quantities and units; standard units; measuring: mass, distance, time, force, temperature; gravity and weight; balanced and unbalanced forces; vectors and scalars; elasticity; Hooke's law; surface tension; intermolecular forces; diffusion; meniscus; atom; molecule; distance and displacement; speed and velocity; instantaneous speed and average speed; acceleration; terminal velocity; speed vs time graphs; acceleration vs time graphs; distance vs time graphs; types of forces: gravitational, elastic, lift, buoyant, air resistance, friction; Newton's laws of motion; mechanical work; power; energy: kinetic energy, gravitational potential energy.

**Laboratory skills:** experimental design, data collecting, data processing, data presentation, conclusion, evaluation.

## CHEMISTRY

**Topics:** Basic lab equipment, glassware and lab techniques. Properties of metals and non-metals. Density. Mixtures, common ores and alloys. States of matter. Trends in the periodic table of the elements. Atomic structure theories. Structure of the atom. Atomic and mass numbers. Isotopes and radioactivity. Electrons arrangement. Different types of bonds. Electronegativity. Molecular and structural formulae. Basic nomenclature of inorganic compounds. Law of conservation of the mass and law of constant composition. Avogadro constant. The mole concept. Basic stoichiometric calculations. Relative atomic mass. Exothermic and endothermic reactions. Air composition. Properties of carbon oxides, hydrogen and oxygen.

## **SOCIAL STUDIES**

### HISTORY

**Topics:** Source examination skills; Map examination skills; The Migration Period; The Vikings; Medieval Christendom and European Feudalism; Muslim Civilisation; The Crusades; The Black Death; The Renaissance; Discovery of the New World; The Protestant Reformation; The Enlightenment.

### GEOGRAPHY

**Themes:** what is geography; map skills; The European Union; oceans, mountain ranges, lakes and deserts of the world; marine processes; ecosystem and resource management; the Universe and earth motions; population, settlement and migration; agriculture and food; industry and trade; energy and water; leisure and tourism.

### ETHICS

Religious experience vs empirical one. The role of critical thinking about the supernatural. The introduction to scientific method and its application in investigation of hypothesis. Basic beliefs in comparison between science and religion. The concept of God and religion in general and in reference to the context of reality.

## **ARTS & TRANSDISCIPLINARY**

### VISUAL ARTS

Ancient Art, Art in media-advertisement, Decorations and gifts for different occasions, Stained Glass: Middle-Ages, Cubism, Pop Art

### MUSIC

**Forms in music:** creating musical maps of compositions Performing and singing

**Music and composers:** Baroque Era and Classical Era

**Instruments and styles:** composing in styles using technology

**Presentation:** artists, styles and instruments, 21st century popular music



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## **INFORMATION TECHNOLOGY**

**Projects:** “Holidays in Pictures” in Photo Story 3.0.; “Internet Presentation” in Google Slides; “Create a 3d building” in SketchUp; “Computer History Presentation” in Google Slides; “Typing Master” Lessons 1-7; “Ski Resort Flyer”, “Invitation to a Special Event” and “Ski School Brochure” in a program of their own choice; Geek Gadget Ad”; “Create a Scene” in Photoshop

## **PHYSICAL & HEALTH EDUCATION**

**Skills:** gymnastics, corrective gymnastics, athletics, team games, gross motor skills, physical fitness, health related fitness, movement to music, coordination skills.