



International School of Poznan

International Baccalaureate World School no. 002709



## G8 CURRICULUM



## LANGUAGES

### LANGUAGE OF INSTRUCTION: ENGLISH

#### GENERAL SKILLS:

**Themes:** Crossing Rivers, Communication, Feeding Us All, Health, New 'Pastures', Setting the Scene, Peace, Looking back.

**Texts analysis:** proverbs, magazine articles, technical diagrams, cartoons, vox pops, encyclopedia entries, autobiographies, poems, short stories, fables, extracts from stories, novels, plays.

**Writing skills:** poems, journal entries, descriptions, stories, essays, an imaginative opening scene.

**Projects:** food charity organizations, peace symbols

**GRAMMAR:** All Tenses, Modals (present and past uses), Passive, Infinitives and Gerunds, Adjectives and Adverbs, Conditionals and wishes; Wordformation.

**LITERATURE:** The course is based on The Holt Reader. Elements of Literature. (Grade 8 level).

**The Holt Reader texts:** (ADAPTED VERSIONS): "The Treasure of Lemon Brown" by Walter Dean Myers, "The Inn of Lost Time" by Lensey Namioka, "A Retrieved Reformation" by O. Henry, "Mrs. Flowers" by Maya Angelou, "The Wise Old Woman" by Yoshiko Uchida, "How I Learned English" Gregory Djanikian, "The Tell-Tale Heart" by Edgar Allan Poe, "Raymond's Run" by Toni Cade Bambara; Home reading novel: S. E. Hinton "The Outsiders" **Skills:** Literary Response and Analysis Understand plot structure. Understand characterization. Analyze setting and its influence on mood and tone. Identify and analyze themes. Understand elements of poetry.

### HOST LANGUAGE: POLISH

**Lektury:** E. E. Schmitt, *Oskar i Pani Róża*; A. S. Exupery, *Mały Książę*; J. Słowacki, *Balladyna*; A. Kamiński, *Kamienie na szaniec*; A. Mickiewicz, *Pan Tadeusz*.

**Gramatyka:** słowotwórstwo, zdanie pojedyncze, zdanie złożone, interpunkcja w wypowiedzeniu wielokrotnie złożonym.

**Sztuka pisania:** opis obrazu i rzeźby, opis przeżyć wewnętrznych, opowiadanie (narracja pierwszoosobowa i trzecioosobowa), list oficjalny, autocharakterystyka, charakterystyka, recenzja, rozprawka.

**Literatura:** pojęcia z zakresu liryki, epiki i dramatu.

### ADDITIONAL LANGUAGES:

#### GERMAN

**Topics:** physical descriptions, personality, family relationships, helping at home, rules at home, daily routine, celebrations, holidays and festivals, organising a party, invitations, the media, TV viewing habits, favourite music, singers and bands, films and film reviews, reading habits, hobbies, hobbies in different kinds of weather and plans for the weekend.

**Grammar:** adjective endings, the present and perfect tense, word order with *weil*, separable and reflexive verbs, the imperfect tense (*war*), the correct endings for dates, modal verbs, question words and possessive adjectives.

**Skills and pronunciation:** building longer sentences, expressing more complex opinions, adapting sentences and text, identifying word families, building answers from questions, working out grammar patterns, developing listening and reading skills, explaining one's own opinion and identifying word families.

### ADDITIONAL LANGUAGES:

#### SPANISH

**Topics:** summer holiday activities, personal information, physical descriptions, personality, clothes you like/dislike wearing, accessories, shopping for clothes, fashion show, daily routine, weekend routine, weather and plans for the weekend, nature and animals, transport and adjectives.

**Grammar:** *presente de indicativo*, *preterito perfecto*, *estar+gerundio* of regular, irregular and reflexive verbs,



*ir+a+infinitive*, verbs: *gustar, encantar*, singular and plural of nouns and adjectives, interrogativos: *cómo, cuándo, de dónde, cuántos*, differences: *ser y estar, hay*, comparatives, adjectives.

**Skills:** give more detailed descriptions, ask and answer questions, create longer sentences, express more complex opinions, develop role-play skills, speak in present, past and future, make video blogs, develop 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:** Bieszczady - the region in Poland; Polish actors and series; 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, working with powers and surds, applying the basic index laws, standard notation, percentages and ratios, direct proportion.

**Geometry:** Properties of angles, theorem and its proof, triangle inequality, congruent figures, congruent triangles, regular polygons, properties of prisms and pyramids, volume and surface area, circumference and area of a circle, axial and central symmetry, bisector of an angle and an interval. Applications of Pythagoras' theorem, perimeter and area of 2D shapes, 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.

**Statistics and probability:** Collecting and organising data, representing data on diagrams, measures of central tendency, listing all possible outcomes of an experiment, applying the Fundamental Principle of Counting, understanding the language used in probability, determining the theoretical probability of an outcome in a probability experiment.

## SCIENCES

### BIOLOGY

**Topics:** Variation and inheritance; The contents of the nucleus; The structure of DNA; Gene expression; Chromosomes and cell division (mitosis and meiosis); Mutations and diseases; Inheritance, Mendel's principles of heredity, The Punnett squares, Pedigree chart, Inherited medical conditions and co-dominance; sex-linked characteristics; Variation and natural selection: the evolution of species; Artificial selection; Human evolution; Evidence for evolution; Ecology and ecosystems; Flow of energy: food chains and food webs; Feeding relationships.

**Skills:** using a microscope, using and designing keys, planning and performing investigations.

### PHYSICS

**Topics:** Kinetic energy; gravitational potential energy; total mechanical energy; law of conservation of the energy; thermal energy; heat; temperature; heat capacity; specific heat capacity; latent heat; specific latent heat; first law of thermodynamics; simple harmonic motion; longitudinal and transverse waves; wave phenomena; light and sound; electric charge; electrostatic force; electric conductors and insulators; resistance; Ohm's law; electric current; potential difference (voltage); power; simple electric circuits; magnetic field; electric motor; current generator; optics.



## **CHEMISTRY**

**Topics:** Water cycle. Water properties. Concentrations. Water pollution. Aqueous solutions. PH-scale and common indicators. Arrhenius acid-base theory. Properties of common acids and bases. Ionic dissociation. Acid precipitation. Salts. Allotropy of carbon. Fossil fuels. Homologues series of alkanes, alkenes and alkynes. Hydrocarbons. Polymers. Alcohols. Homologues series of organic acids. Properties of organic acids (with fatty acids). Soap and detergents. Esters properties. Urea and amines. Amino acids. Proteins. Carbohydrates.

## **SOCIAL STUDIES**

### **HISTORY**

**Topics:** The source examination skills. The map examination skills. The English Civil Wars. Different religious concepts. The French Revolution. The Industrial Revolution. European colonialism: Mughal India; Causes of WW1.

### **GEOGRAPHY**

**Themes:** Map work and examination skills. Geography of continents. Africa- physical environment, population, economy; issues of Ghana, Egypt and Republic of South Africa. Australia and Oceania-physical environment, population, economy. Asia-physical environment, population, economy; issues of India, China, Japan, United Arab Emirates.

### **ETHICS**

Types of values and their presence in the context of everyday life and in art. Human Rights and their ethical evaluation in the modern world. Prejudice, stereotypes and labels. "Me" as a representative of history, culture, tradition. Understanding of human nature. Disagreement - Nature vs. Nurture. The problem of free will.

### **CITIZENSHIP**

Human - Society - Social conflicts and divisions; Needs and their meaning in a human life; Democracy; Political parties and systems; Constitutions; Constitutional division of Polish authorities; Legal issues

## **ARTS & TRANSDISCIPLINARY**

### **INFORMATION TECHNOLOGY**

**Projects:** "Wallpaper for School Computers" in Photoshop; "Restaurant Menu", "Daily Special" and "Invitation to a Special Event" in a program of their own choice; "Create a piece of 3d furniture" In SketchUp; "Excel/Google Sheets" basic and some more advanced functions in Microsoft Office Excel/Google Sheets; "GIF Animation" using Paint and giphy.com; "Typing Master" Lessons 9-12; "Animate Your Name" in Scratch; Binary Numbers; "Create a Game" in Scratch; Intro to Programming

## **PHYSICAL & HEALTH EDUCATION**

### **PE**

**Skills:** gymnastics (rolls - forward and backward, cartwheel, handstand, vault jump over apparatus); corrective gymnastics (flexibility, good posture practice and adjustment, gross motor skills development, coordination development, movement to music, healthy education, creating choreography, setting own goals, major muscle groups); athletics (running, jumping, throwing skills development, warm up importance, reflecting on performance); team games (handball, basketball, football, hockey - ball handling, ball passing, hockey stick handling, dribbling, shooting, strategy, game rules, passing in pairs, volleyball, badminton skills development, strategy, game rules); Heart rate checking, Harvard Test, Step Test;

### **SAFETY EDUCATION**

**First Aid:** Action at the emergency; Dealing with a casualty; Assessing the sick or injured; The unconscious casualty; CPR; Recovery Position; Head to toe check; First Aid Kit; Severe bleeding; Broken bones; Burns; Drowning; Seizures; Stroke;

**Emergency:** Types of Alarms; Evacuation; Emergency Alert System; Fire Emergency; Floods; Severe Weather



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Conditions; Transport Emergency Response

**Health Education:** Mental health issues; Social, civilization and lifestyle diseases;