



International School of Poznan

International Baccalaureate World School no. 002709



## G9 CURRICULUM



## LANGUAGES

### LANGUAGE ARTS – ENGLISH

#### GENERAL SKILLS:

**Themes:** Friendship, Education, Journeys, Work, Freedom, The Future, A Dream of Flying,

**Texts analysis:** magazine articles, online magazine articles, speeches, web pages, autobiographies, poems, short stories, extracts from novels, myths, science fiction stories.

**Writing skills:** job profile article, journal entries, autobiographical accounts, imaginary accounts, stories, essays, summaries.

**Projects:** Famous explorers, Inventions to change our world, Being free - exploring Human Rights.

#### GRAMMAR:

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

#### LITERATURE:

Course based on The Holt Reader. Elements of Literature. (Grade 9 level).

**Additional assignment:** Home reading novel: The Wave by Todd Strasser, Of Mice and Men by John Steinbeck

**Literary Response and Analysis:** Plot and Setting, Character, Narrator and Voice, Comparing Themes, Irony and Ambiguity, Symbolism and Allegory, Poetry.

**Skills:** Understand plot and structure and development of time and sequence. Understand characterization, narrators, or points of view (omniscient, first-person, and third-person limited), tone, and voice. Understand irony (verbal irony, situational irony, and dramatic irony) and ambiguity, symbolism and allusion.

**Literary Context:** Understand the uses of primary and secondary sources. Synthesize information from several sources on a single topic.

### LANGUAGE A – POLISH

**Lektury:** E. E. Schmitt, Oskar i Pani Róża; A. S. Exupery, Mały Książę; A. Kamiński, Kamienie na szaniec; N.H. Kleinbaum, Stowarzyszenie umarłych poetów; A. Mickiewicz, Pan Tadeusz; M. Wańkowicz: Ziele na kraterze (fragment), Tędy i owędy (fragmenty); S. Żeromski, Syzyfowe prace; S. Mrożek, Artysta; J. Słowacki: Balladyna.

**Gramatyka:** słowotwórstwo, zdanie pojedyncze a 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:** podział epok, rodzaje i gatunki literackie, środki stylistyczne, typy liryki, fikcja literacka, świat przedstawiony, fantastyka, realizm, narracja, intertekstualność, parafraza literacka, parodia, związki frazeologiczne

### POLISH AS ADDITIONAL LANGUAGE

**Grammar:** Possessive pronouns; Instrumental in singular; Imperative; Dates - months; Instrumental in singular; Modal verbs; Past and future tense; Wh-questions;

**Writing:** Weather forecast; My fashion style; Diet; City map; Polish Christmas and New Year's traditions; "rz" or "ż"? Global issues around the world;

**Reading:** Climate around the world; What people wear through the decade? Our health - issues; St. Andrew's Day - traditions; The exam - useful phrases;



**Speaking:** Weather; Climate changes; Animals and zoo; Fashion and clothes; Emotions and feelings; Body parts; How can I go to...? Directions; Friendship and love; Continents and nature; Me and other people - social media trap; Easter and spring; Giving advice;

**Project:** Czytam po polsku (I can read in Polish); Nasze stolice (Our capitals)

## LANGUAGE B – GERMAN

**Topics:** birthday and other celebrations, special events, party, party invitations and excuses, talking about place we live, describing the differences between the town and the countryside, environmental problems and protecting environment, visit to German speaking countries and their capital cities, talking about a future and past visit, planning a trip, free time: hobbies, sport and preferences, part-time work, pocket money, spending and saving habits and holidays: preferences, accommodation, tourism, travel.

**Grammar:** in with dative, the imperfect tense, adjectives and the accusative, negatives, weder ... noch, making comparisons, modal verbs in the imperfect tense, word order, dass, fuer with accusative, relative pronouns, mit with dative, Sie, interrogatives and word order, prepositions with dative and accusative and irregular verbs in present.

**Skills:** detailed descriptions about the past, giving opinions, writing a formal letter, preparing a presentation, expressing opinions and preferences, giving more detail in written work and reading a magazine article.

## LANGUAGE B – SPANISH

**Topics:** summer holiday activities, daily routine, transports, professions, media, future plans, Spanish celebrations, festivals, food, traditions, famous people, geography, monuments and sports, cooking recipes, songs, telenovelas.

**Grammar:** presente de indicative, preterito perfecto, preterito indefinido, estar+gerundio of regular, irregular and reflexive verbs, ir+a+infinitive, imperativo afirmativo, verbs: doler, gustar, encantar, singular and plural of nouns and adjectives, interrogativos: cómo, cuándo, de dónde, cuántos, differences: ser y estar, hay.

**Skills:** giving more detailed descriptions, asking and answering questions, creating longer sentences, expressing more complex opinions, developing role- play skills, speaking in present, past and future, making video blogs, developing listening and reading skills.

## MATHEMATICS

**Numbers:** Operating with rational numbers, using order of operations, working with powers and surds, applying the basic index laws, understanding the meaning of the negative index, 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 experimental.



## SCIENCE

### 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.

## HUMANITIES

### 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

Morality through the prism of different ways of knowing. Language and morality. Emotions and morality. Technology and morality. Animals and morality. Selected ethical theories and their practical evaluation. Psychological analysis of prejudice. The role of logic in Ethics and Philosophy. Necessary and sufficient condition of personhood.



## INFORMATION TECHNOLOGY

### Projects:

“ASCII”; “Pimp a Car” in Photoshop; “Your Company” in Microsoft Office Publisher and PowerPoint;  
“Introduction to Programming”;

### Bonus Projects:

“Business Logo” - design a logo for your business; “Create an Ad for the Car”; “ASCII Art”

## PHYSICAL & SAFETY EDUCATION

### PHYSICAL EDUCATION

**Skills:** Gymnastics rolls (forward and backward, cartwheel, handstand, vault jump over apparatus, creating combo),

Corrective gymnastics (flexibility, good posture practice and adjustment),

Athletics (running, jumping, throwing skills development, warm up importance, reflecting on performance),

Team games (handball, basketball, football, hockey)

Physical fitness tests (heart rate checking, Harvard Test, Step Test, YMCA)

### SAFETY EDUCATION

First Aid

Emergency Preparedness - Types of Emergencies, Types of Alarms

State Safety - State Defence System, Evacuation, Polish Armed Forces, Cultural Property and Civil Protection,

National Safety

Health Education