Subject	Subject Requirements	Exam
Polish A HL	**Zakres materiału** - umiejętność skomponowania pracy na zadany temat w oparciu o trzy dowolne utwory ze szkolnej listy lektur (wymaganej przez MEN w liceum). Wybrane teksty literackie mogą, acz nie muszą reprezentować różne gatunki literackie, a także odmienne epoki literackie. **Przykładowy temat pracy**: W jaki sposób i z jakim skutkiem w wybranych przez Ciebie utworach literackich przedstawiony jest motyw przyjaźni? **Długość pracy**: minimum 2,5 strony A4 Na egzaminie uczeń otrzyma krótkie wskazówki (w formie pisemnej) dotyczące sposobu, w jaki zalecane jest, by praca została skomponowana. **Kryteria oceny pracy:** A (0-10) wiedza, zrozumienie i interpretacja, B (0-10) wskazywanie funkcji zabiegów literackich , C (0-5) kompozycja pracy, D (0-5) język.	1h30m
English A Lang.&Lit. SL	Level C2/Proficiency The exam consists of two parts. 1. READING COMPREHENSION AND USE OF ENGLISH a. potential task types: multiple choice questions, key word transformation, word formation b. grammar tested: tenses, passive voice, reported speech, conditionals, modal verbs, relative clauses, gerunds and infinitives, phrasal verbs 2. WRITING A formal academic essay – text analysis, min. 500 words. Candidates write an essay analysing one of two texts (choice out of e.g. an advertisement, an extract from an article, a webpage). The essay is assessed according to 4 criteria: a. understanding of the source text b. knowledge and understanding of stylistic devices (e.g. metaphor, simile, visual elements such as colour, irony, repetition, rhyme, symbol) c. essay structure – coherence and cohesion d. language range and accuracy	1h30
English A Lang. & Lit. HL	Level C2/Proficiency The exam for HL candidates covers the same scope of material, but the tasks set will test more complex nuances of English in use. Candidates are also expected to be able to recognise the implied meanings in the texts (as opposed to the literal ones) and comment on the use of more sophisticated stylistic choices. The exam consists of two parts. 1. READING COMPREHENSION AND USE OF ENGLISH a. potential task types: multiple choice questions, key word transformation, word formation b. grammar tested: tenses, passive voice, reported speech, conditionals, modal verbs, relative clauses, gerunds and infinitives, phrasal verbs 2. WRITING A formal academic essay – text analysis, min. 500 words.	1h30

	Candidates write an essay analysing one of two texts (choice out of e.g. an advertisement, an extract from an article, a webpage). The essay is assessed according to 4 criteria: a. understanding of the source text b. knowledge and understanding of stylistic devices (e.g. metaphor, simile, visual elements such as colour or font, irony, various forms of repetition, rhyme, symbol, ethos, pathos, logos) c. essay structure – coherence and cohesion d. language range and accuracy	
English B HL	Level C1 Reading Comprehension Use of English (vocabulary & grammar) Writing (300-400 words) - Letter (informal, formal)/e-mail - Essay - Review - Report	1h30m
French B SL	Level B1 Reading comprehension Use of language (vocabulary and grammar, communication skills) Writing (250-400 words) - Personal letter / e-mail - Blog - Article - Speech Recommended topics: Leisure activities, Entertainment, Health and wellbeing, Social relationships, Education, Media	1h30m
French B HL	Level B2 Reading comprehension Use of language (vocabulary and grammar, communication skills) Writing (250-400 words) - Personal and formal letter/ e-mail - Blog - Article - Speech Recommended topics: Leisure activities, Entertainment, Health and wellbeing, Social relationships, Education, Media	1h30m
German B SL	Level B1 Reading comprehension Use of language (vocabulary and grammar, communication skills) Writing (250-400 words) - Personal letter / e-mail - Blog - Article - Speech Recommended topics: Leisure activities, Entertainment, Health and wellbeing, Social relationships, Education, Media	1h30m
German B HL	Level B2 Reading comprehension Use of language (vocabulary and grammar, communication skills)	1h30m

	Writing (250-400 words) - Personal and formal letter/ e-mail - Blog - Article - Speech Recommended topics: Leisure activities, Entertainment, Health and wellbeing, Social relationships, Education, Media	
Spanish B SL	Level B1 Reading comprehension Use of language (vocabulary and grammar, communication skills) Writing (250-400 words) - Personal letter / e-mail - Blog - Article - Speech Recommended topics: Social activities, Entertainment, Health and wellbeing, Environmental issues, Travelling, Personal life and relationships, Education	1h30m
Business Management HL Economics HL	Business Studies IGCSE: 1. Understanding Business Activity - Business Activity - Classification of Businesses - Enterprise, Business Growth & Size - Types of Business Organizations - Business Objectives & Stakeholder Objectives 2. Human Resources – People in Business - Motivating Workers - Organization & Management - Recruitment, Selection & Training of Workers - Internal & External Communication 3. Marketing - Marketing, Competition & the Customer - Market Research - Marketing Mix - Marketing Strategy 4. Operations Management - Production of Goods & Services - Costs, Scale of Production & Break-even Analysis - Achieving Quality Production - Location Decisions General knowledge from Business Management & Economics.	1h30m
Geography HL	1. Geographical coordinates, map and its elements, cartographic methods of geographic data presentation 2. The structure of the Earth and plate tectonics theory 3. Volcano eruptions and types of volcanoes 4. Formation and types of mountains 5. Exogenous processes – weathering, erosion, transport and accumulation in different environments (aeolian, fluvial, glacial)	1h30m

	6. Climate and weather – factors influencing climate and weather conditions, climate zones, air pressure systems etc. 7. Hydrosphere – global water distribution, sea currents, freshwater processes (floods and droughts), glacier types 8. Soils and vegetation – soil and vegetation zones, factors influencing soil formation and vegetation distributions 9. Population change – demographic processes, natural increase, migrations – origins and effects, contemporary changes in global human population 10. Primary economy – agriculture, forestry, fishing, mining – factors influencing their developments, global distribution of energy resources (oil, natural gas, coal and lignite) 11. Industry and services – main global pattern and factors influencing their developments in different places of our globe 12. Global issues – globalisation processes, global inequalities, factors influencing the gaps within development of different Earth's regions	
History HL	1. The First World War, its causes and consequences 2. The League of Nations: to what extent was it successful? 3. The Great Depression: its causes and consequences 4. Mussolini's rule in Italy, Hitler's rule in the III Reich: similarities and differences of the two ideologies (fascism and nazism) as well as the system of government in the two totalitarian states 5. Lenin's and Stalin's rule in the USSR. What is communism? What tools did the leaders use to keep power? The candidates will be supposed to write one short essay on the topics above, as well as analyse a few sources on these topics	1h30m
Psychology HL	No specific background knowledge in psychology is required. However, students need to be able to demonstrate their active interest in psychology (e.g. by naming books or articles that they have read). In addition, students need to be able to understand a scientific text written in English, as well as write a short essay.	1h30m
Biology HL	1. Principles of conducting biological research. 2. Water properties and its significance for organisms and the environment. 3. Protein as the building blocks of life. 4. Carbohydrates, lipids, proteins – characteristics. 5. Structure and functions of nucleic acids - DNA and RNA. 6. Characteristics of eukaryotic (plant, animal, fungi) and prokaryotic cells 7. Structure and functions of the cell nucleus, cell membrane, membrane transport 8. The cell cycle, the importance of mitosis and meiosis, comparison 9. The direction of metabolic changes (anabolic and	1h30m

	catabolic reactions, hydrolysis and condensation). 10. Enzymes – properties, mode of action, factors effecting enzyme activity. 11. Aerobic and anaerobic respiration. 12. Structure and functions of the respiratory system. Definitions. 13. Structure and functions of the digestive system. 14. Digestion, absorption and assimilation of food. 15. Characteristics of the circulatory system. 16. Cardiovascular diseases – causes, symptoms, treatment, diagnosis, prevention. 17. Homeostasis and endocrine system. 18. Examples of homeostasis, regulation of homeostatic mechanisms. 19. Structure and functions of the nervous system – brain and spinal cord. 20. Neurons, reflex arc and synapses 21. Reproductive system, sexual and asexual reproduction.	
Chemistry HL	1. Writing equations of chemical reactions 2. Balancing equations 3. Metals, non-metals and their oxides 4. Reaction of oxides with water 5. Reactions of acids with bases (neutralization reaction) 6. Methods of salts formation 7. The structure of the atom 8. Isotopes 9. Electron configuration 10. Intramolecular chemical bonding (covalent, ionic, metallic) 11. Intermolecular chemical bonding (dispersion forces, dipole-dipole interactions, hydrogen bonding) 12. Macroscopic properties resulting from bonding type 13. Periodic table – properties change in groups and periods 14. Mol definition and related calculations 15. Hydrocarbons (alkanes, alkenes, alkynes) chemical and physical properties 16. Isomerism (chain isomerism, positional isomerism) 17. Combustion reactions (complete and incomplete combustion) 18. Empirical formula determination 19. Alcohols physical and chemical properties 20. Halogenoalkanes chemical and physical properties	1h30m
Physics HL	1.Distance, displacement, speed and velocity (both instantaneous and average), acceleration, graphs of motion and their interpretation (distance-time graph, speed-time graph).	1h30m

	2. Forces, types, weight and mass difference. 3. Drawing forces acting on an object, free body diagram and resultant force, static and kinetic friction, free fall. 4. All three Newton's laws explained with words and formulae, used to solve simple problems. 5. Energy types with formulae, energy transformations, conservation of energy, work, efficiency and power. 6. Circular motion, Newton universal law of gravity, acceleration of free fall on different planets. 10. Thermal effects, temperature, conduction, convection, radiation, changing state, specific heat capacity, latent heat. 11. Types of waves (transverse and longitudinal), wave effects, sound waves, speed of sound and echoes, characteristic of sound waves, ultrasound. 12. Electromagnetic waves spectrum, speed of electromagnetic waves. 13. Basic information about the structure of an atom. 14. SI units, units of all physics quantities mentioned in this topic list, unit conversion calculations km/h vs m/s. 16. Rearranging mathematical equations to make some variable the subject. 17. Performing mathematical calculations using scientific notation. 18.Vector and scalar quantities.	

Mathematics AA SL	1. Operations involving powers and arithmetic roots, rationalizing the denominator in algebraic fractions. Rational indices. 2. Finding the Highest Common Factor (HCF) and the Least Common Multiple (LCM) of two numbers and two algebraic expressions. 3. Rounding numbers. Decimal places and significant figures. Scientific (exponential) notation. 4. Factorizing algebraic expressions, including quadratic polynomials. Grouping terms. 5. Rearranging algebraic expressions: collecting like terms, multiplying monomials by algebraic sums, multiplying two algebraic sums. 6. Short multiplication formulas: difference of squares, difference of cubes, sum of cubes, square and cube of a sum. 7. Calculating percentages: reduction and increase of prices, taxes. Simple and compound interest. 8. Sets and operations on sets: sum, intersection and difference. Application of Venn diagrams for two and three sets. Solving linear inequalities in the interval form. Open and closed intervals. 9. Solving linear, quadratic and simple rational equations both algebraically and graphically. 10. Evaluating the value of simple arithmetic expressions involving absolute values, solving equations with absolute values. 11. Rearranging simple formulas commonly used in physics and chemistry. 12. Using graphic display calculators (GDC) for calculating values of arithmetic expressions, solving quadratic equations, simultaneous equations, graphing functions and deriving some of their properties such as zeros and turning points. 13. Foundations of geometry in a coordinate system: calculating the length of a segment, finding its mid-point and gradient. 14. Basics of trigonometry: sine, cosine and tangent ratios in a right-angled triangle. Applying sine and cosine rules for solving non-right-angled triangles. Sine formula for the area of a triangle. 15. Function notion. Finding a domain of a function and an algebraic expression involving denominators and square roots. 16. Linear functions. Equation of a line in a gradient-intercept and general forms. Sketching graphs of linear functions. Parallel and perpendicular lines in a coordinate system. 17. Quadratic functions. Parabola. Finding roots, y-intercept and coordinates of the vertex. 18. Definition of a logarithm. Calculating simple logarithms directly from the definition.	1h30m

	19. English vocabulary related to the topics above.	

Mathematics AA HL	The exam for HL candidates covers the same scope of the syllabus, but requires higher complexity of the tasks, higher level of mathematical skills and verifies the ability of solving non-standard problems.	1h30m
Visual Arts	**theory:** • knowledge of the main art movements and their representatives in the art of the late XIX and XX c. • ability to analyze a painting **practice:** • drawing skills: ability to a draw human face from black and white photography (chiaroscuro, proportions) • creativity: ability to express given content/ideas by means of simple visual symbols together with the ability to describe one's concept/path of thinking	1h30m