English International School
Moscow

Year 5 Curriculum Objectives

English	Maths	Science	Topic	ICT	Art	Foreign Language	PE	Music	PSHE
Spoken Language **En5/1a** listen and respond appropriately to adults and their peers **En5/1b** ask relevant questions to extend their understanding and knowledge En5/1c use relevant strategies to build their vocabulary En5/1d articulate and justify answers, arguments and opinions **En5/1e** give well-structured descriptions, explanations and narratives for different purposes, including for expressing feelings. **En5/1f** maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments **En5/1g** use spoken language to develop understanding through speculating, hypothesising,	**Number & Place Value** **Ma5/2.1a** read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit **Ma5/2.1b** count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 **Ma5/2.1c** interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0 **Ma5/2.1d** round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 **Ma5/2.1e** solve number problems	**Working Scientifically** **Sc5/1.1** planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary **Sc5/1.2** taking measurements, using a range of scientific equipment, with increasing accuracy and precision **Sc5/1.3** recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs **Sc5/1.4** using test results to make	**History and Geography** **Locational Knowledge Ge2/1.1a** locate the world's countries, using maps to focus on Europe (including the location of Russia) and North and South America, concentrating on their environmental regions, key physical and human characteristics, countries, and major cities **Ge2/1.1b** name and locate counties and cities of the United Kingdom, geographical regions and their	**Information Communication Technology** **Co2/1.1** design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts **Co2/1.2** use sequence, selection, and repetition in programs; work with variables and various forms of input and output **Co2/1.3** use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs **Co2/1.4** understand computer networks including the internet; how they can provide multiple services, such as the	**Art and Design** **Ar2/1.1** to create sketch books to record their observations and use them to review and revisit ideas **Ar2/1.2** to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials **Ar2/1.3** about great artists, architects and designers in history.	**Listening & Comprehension** **FL2/1.1a** listen attentively to spoken language and show understanding by joining in and responding **FL2/1.1b** explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words **Speaking** **FL2/1.2a** engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help* **FL2/1.2b** speak in sentences, using familiar vocabulary, phrases and basic language structures	**Sport & Games** **PE2/1.1a** use running, jumping, throwing and catching in isolation and in combination **PE2/1.1b** play competitive games, modified where appropriate, and apply basic principles suitable for attacking and defending **PE2/1.1c** develop flexibility, strength, technique, control and balance **PE2/1.1d** perform dances using a range of movement patterns	**Music** **Mu2/1.1** play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression **Mu2/1.2** improvise and compose music for a range of purposes using the interrelated dimensions of music **Mu2/1.3** listen with attention to detail and recall sounds with increasing aural memory Mu2/1.4 use and understand staff and other musical notations **Mu2/1.5** appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians **Mu2/1.6** develop an understanding of the history of music.	**Personal, Social, Health and Economic** **Positive friendships, including online** Responding to hurtful behaviour; managing confidentiality; recognising risks online **Respecting differences and similarities** discussing difference sensitively **What makes a community** shared responsibilities How data is shared and used **Making decisions about money** using and keeping money safe **Maintaining a balanced lifestyle** oral hygiene and dental care **Personal identity** recognising individuality and different qualities; mental Wellbeing **Medicines and**

Addresses: 14 Lobachevskogo street, Moscow, Russia, 119415
Phone: +7(495)668-70-50
Email: information@englishedmoscow.com
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imagining and exploring ideas **En5/1h** speak audibly and fluently with an increasing command of Standard English **En5/1i** participate in discussions, presentations, performances, roleplay/improvisations and debates **En5/1j** gain, maintain and monitor the interest of the listener(s) **En5/1k** consider and evaluate different viewpoints, attending to and building on the contributions of others **En5/1l** select and use appropriate registers for effective communication **Reading** **En5/2.1a** apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology), as listed in English Appendix 1, both to read aloud and to understand the	and practical problems that involve all of the above **Ma5/2.1f** read Roman numerals to 1,000 (M) and recognise years written in Roman numerals. **Addition & Subtraction** **Ma5/2.2a** add and subtract whole numbers with more than 4 digits,including using formal written methods (columnar addition and subtraction) **Ma5/2.2b** add and subtract numbers mentally with increasingly large numbers **Ma5/2.2c** use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy **Ma5/2.2d** solve addition and	predictions to set up further comparative and fair tests **Sc5/1.5** reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations **Sc5/1.6** identifying scientific evidence that has been used to support or refute ideas or arguments. **Living Things and their habitats** **Sc5/2.1a** describe the differences in the life cycles of a mammal, an amphibian, an	identifying human and physical characteristics, key topographical features (including hills, mountains, coasts and rivers), and land-use patterns; and understand how some of these aspects have changed over time **Ge2/1.1c** identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Green wich Meridian and time zones (including day and night)	world-wide web; and the opportunities they offer for communication and collaboration **Co2/1.5** use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content **Co2/1.6** select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. **Co2/1.7** use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report		**FL2/1.2c** develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases* **FL2/1.2d** present ideas and information orally to a range of audiences* **Reading & Comprehension** **FL2/1.3a** read carefully and show understanding of words, phrases and simple writing **FL2/1.3b** appreciate stories, songs, poems and rhymes in the language **FL2/1.3c** broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including	**PE2/1.1e** take part in outdoor and adventurous activity challenges both individually and within a team **PE2/1.1f** compare their performances with previous ones and demonstrate improvement to achieve their personal best. **Swimming and water safety** All schools must provide swimming instruction either in key stage 1 or key stage 2. In particular, pupils should be taught to: **PE2/1.2a** swim competently, confidently and proficiently		**household products** drugs common to everyday life

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meaning of new words that they meet. **Comprehension** **En5/2.2a** maintain positive attitudes to reading and an understanding of what they read. **En5/2.2b** understand what they read. **En5/2.2c** discuss and evaluate how authors use language, including figurative language, considering the impact on the reader **En5/2.2d** distinguish between statements of fact and opinion **En5/2.2e** retrieve, record and present information from non-fiction **En5/2.2f** participate in discussions about books that are read to them and those they can read for themselves, building on their own and others' ideas and challenging views courteously **En5/2.2g** explain and discuss their understanding of what they have read,	subtraction multi-step problems in contexts, deciding which operations and methods to use and why. **Multiplication & Division** **Ma5/2.3a** identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. **Ma5/2.3b** know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers **Ma5/2.3c** establish whether a number up to 100 is prime and recall prime numbers up to 19 **Ma5/2.3d** multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for	insect and a bird **Sc5/2.1b** describe the life process of reproduction in some plants and animals. **Animals, including humans** **Sc5/2.2a** describe the changes as humans develop to old age. **Properties and Changes of Materials** **Sc5/3.1a** compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets	**Place Knowledge Ge2/1.2a** understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region in North or South America **Human and Physical Geography Ge2/1.3a** describe and understand key aspects of physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle	concerns about content and contact		through using a dictionary **Writing** **FL2/1.4a** write phrases from memory, and adapt these to create new sentences, to express ideas clearly **FL2/1.4b** describe people, places, things and actions orally* and in writing **FL2/1.4c** understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English.	over a distance of at least 25 metres **PE2/1.2b** use a range of strokes effectively **PE2/1.2c** perform safe self-rescue in different water-based situations.		

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including through formal presentations and debates, maintaining a focus on the topic and using notes where necessary **En5/2.2h** provide reasoned justifications for their views. **Writing: Spelling** **En5/3.1a** use further prefixes and suffixes and understand the guidance for adding them **En5/3.1b** spell some words with 'silent' letters **En5/3.1c** continue to distinguish between homophones and other words which are often confused **En5/3.1d** use knowledge of morphology and etymology in spelling and understand that the spelling of some words needs to be learnt specifically, as listed in Appendix 1 **En5/3.1e** use dictionaries to check the spelling and meaning of words	two-digit numbers **Ma5/2.3e** multiply and divide numbers mentally drawing upon known facts **Ma5/2.3f** divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context **Ma5/2.3g** multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 **Ma5/2.3h** recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) **Ma5/2.3i** solve problems involving multiplication and division, including using their	**Sc5/3.1b** know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution **Sc5/3.1c** use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating **Sc5/3.1d** give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic **Sc5/3.1e** demonstrate that dissolving, mixing and changes of state are	**Ge2/1.3b** describe and understand key aspects of human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water **Geographical Skills and Fieldwork** **Ge2/1.4a** use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied **Ge2/1.4b** use the 8 points of a compass, 4 and 6-figure grid					

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En5/3.1f use the first 3 or 4 letters of a word to check spelling, meaning or both of these in a dictionary **En5/3.1g** use a thesaurus **Handwriting & Presentation** **En5/3.2a** choosing which shape of a letter to use when given choices and deciding whether or not to join specific letters **En5/3.2b** choosing the writing implement that is best suited for a task **Composition** **En5/3.3a** Plan their writing by: identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own noting and developing initial ideas, drawing on reading and research where necessary in writing narratives, considering how authors have developed characters	knowledge of factors and multiples, squares and cubes **Ma5/2.3j** solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign **Ma5/2.3k** solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. **Fractions & Decimals** **Ma5/2.4a** compare and order fractions whose denominators are all multiples of the same number **Ma5/2.4b** identify, name and write equivalent	reversible changes **Sc5/3.1f** explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. **Earth and Space** **Sc5/4.1a** describe the movement of the Earth, and other planets, relative to the Sun in the solar system **Sc5/4.1b** describe the movement of the Moon relative to the Earth **Sc5/4.1c** describe the Sun, Earth and Moon as	references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the United Kingdom and the wider world **Ge2/1.4c** use fieldwork to observe, measure, record and present the human and physical features in the local area using a range of methods, including sketch maps, plans and graphs, and digital technologies. **Hi2/2.2 Extended chronological study** Pupils should be taught a study of an aspect or theme in history that extends pupils'					

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and settings in what pupils have read, listened to or seen performed **En5/3.3b** Draft and write by: selecting appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning in narratives, describing settings, characters and atmosphere and integrating dialogue to convey character and advance the action précising longer passages using a wide range of devices to build cohesion within and across paragraphs using further organisational and presentational devices to structure text and to guide the reader **En5/3.3c** Evaluate and edit by: assessing the effectiveness of their own and others' writing proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify meaning	fractions of a given fraction, represented visually, including tenths and hundredths **Ma5/2.4c** recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number **Ma5/2.4d** add and subtract fractions with the same denominator and denominators that are multiples of the same number **Ma5/2.4e** multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams **Ma5/2.4f** read and write decimal numbers as fractions	approximately spherical bodies **Sc5/4.1d** use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky. **Forces** **Sc5/4.2a** explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object **Sc5/4.2b** identify the effects of air resistance, water resistance and friction, that act between moving surfaces **Sc5/4.2c** recognise that some mechanisms including levers, pulleys and gears allow a	chronological knowledge **Hi2/2.3 Ancient Civilizations** Pupils should be taught about the achievements of the earliest civilizations – an overview of where and when the first civilizations appeared and a depth study **Hi2/2.4 Ancient Greece** Pupils should be taught a study of Greek life and achievements and their influence on the western world						

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ensuring the consistent and correct use of tense throughout a piece of writing ensuring correct subject and verb agreement when using singular and plural, distinguishing between the language of speech and writing and choosing the appropriate register **En5/3.3d** proofread for spelling and punctuation errors **En5/3.3e** perform their own compositions, using appropriate intonation, volume, and movement so that meaning is clear.	**Ma5/2.4g** recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents **Ma5/2.4h** round decimals with 2 decimal places to the nearest whole number and to 1 decimal place **Ma5/2.4i** read, write, order and compare numbers with up to 3 decimal places **Ma5/2.4j** solve problems involving number up to 3 decimal places **Ma5/2.4k** recognise the per cent symbol (%) and understand that per cent relates to "number of parts per 100", and write percentages as a fraction with denominator 100, and as a decimal fraction	smaller force to have a greater effect							

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	Ma5/2.4l solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and fractions with a denominator of a multiple of 10 or 25. **Measurement** **Ma5/3.1a** convert between different units of metric measure **Ma5/3.1b** understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints **Ma5/3.1c** measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres **Ma5/3.1d** calculate and compare the area of rectangles								

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	(including squares) including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes **Ma5/3.1e** estimate volume and capacity **Ma5/3.1f** solve problems involving converting between units of time **Ma5/3.1g** use all four operations to solve problems involving measure using decimal notation including scaling. **Properties of Shape** **Ma5/3.2a** identify 3-D shapes, including cubes and other cuboids, from 2-D representations **Ma5/3.2b** know angles are measured in								

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	degrees: estimate and compare acute, obtuse and reflex angles **<u>Ma5/3.2c</u>** draw given angles, and measure them in degrees (o) **<u>Ma5/3.2d</u>** identify: angles at a point and 1 whole turn (total 360o) angles at a point on a straight line and half a turn (total 180o) other multiples of 90o **<u>Ma5/3.2e</u>** use the properties of rectangles to deduce related facts and find missing lengths and angles **<u>Ma5/3.2f</u>** distinguish between regular and irregular polygons based on reasoning about equal sides and angles. **<u>Position & Direction</u>** **<u>Ma5/3.3a</u>** identify, describe								

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	and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. **Statistics** **Ma5/4.1a** solve comparison, sum and difference problems using information presented in a line graph **Ma5/4.1b** complete, read and interpret information in tables, including timetables.								