

**KOTHARI INTERNATIONAL SCHOOL, NOIDA**  
**CAMBRIDGE LOWER SECONDARY GRADE 7 (STAGE 8)**  
**ANNUAL SYLLABUS (2023-2024)**

**SUBJECT: FIRST LANGUAGE ENGLISH**

S.NO	MONTH	TOPICS
1.	APRIL	<p><b>UNIT 1: Nature and humans</b>            Writing: Summary Writing            Imaginative Accounts</p> <p>Language Focus : Verbs            Figures of Speech: Enjambment/End-stopping/ Caesura</p>
2.	MAY	<p><b>Unit 2 : Grandmother's Song</b>            Writing : Analyzing Structure and theme, Characterization</p> <p>Language Focus : Figurative Language - Simile, Metaphor, Personification and Hyperbole            Reporting Verbs</p>
3.	JULY	<p><b>Unit 3: Strange Islands</b>            Writing: Dialogue writing and Narrative Writing</p> <p>Language Focus: Reported Speech</p>
4.	AUGUST	<p><b>Unit 4: This is the modern world</b>            Writing: Article Writing            Persuasive Speech</p> <p>Language Focus: Choice of synonyms and Punctuation</p>
5.	SEPTEMBER	<b>TERM 1 (Mid Term)</b>
6.	OCTOBER	<p><b>Unit 5 : Heroes</b>            Writing: Counter- Argumentative and Discursive writing            Short Film script and Biographical Writing</p> <p>Language Focus: Types of Conjunctions, clauses, phrases and sentences - simple, compound and complex</p>
7.	NOVEMBER	<p><b>Unit 6 : Monsters</b></p> <p>Writing: Leaflet Designing            Fable Writing</p>

		Language Focus: Emotive Vocabulary and Descriptors, Parts of speech - Recap
8.	DECEMBER	<b>Unit 7 : The Plantation</b> Writing: Diary entry Report writing  Language Focus: Adverbs, Adverbial Phrases, Prepositional Phrases
9.	JANUARY	<b>Unit 8 : Choices and Decisions</b> Writing: Letter Writing - Formal and Informal  Language Focus: Vocabulary for Letter Writing and Sound Devices
10.	FEBRUARY	<b>REVISION</b>
11.	MARCH	<b>TERM 2 (Progression Test)</b>

### SUBJECT: MATHEMATICS

S.NO.	MONTHS	STRANDS	TOPICS
1.	April	Number	<u><b>UNIT 1: INTEGERS</b></u> 1.1 Adding & subtracting integers 1.2 Multiplying & dividing integers 1.3 Lowest common multiple 1.4 Highest common factor 1.5 Tests of divisibility 1.6 Square roots & cube roots  <u><b>UNIT 3: PLACE VALUE &amp; ROUNDING</b></u> 3.1 Multiplying and dividing by powers of 10 3.2 Rounding
2.	May	Number	<u><b>UNIT 4: DECIMALS</b></u> 4.1 Ordering decimals 4.2 Adding and subtracting decimals 4.3 Multiplying decimals 4.4 Dividing decimals 4.5 Making decimal calculations easier
3.	July	Algebra	<u><b>UNIT 2: EXPRESSIONS, FORMULAE &amp; EQUATIONS</b></u> 2.1 Constructing Expressions 2.2 Using expressions & formulae 2.3 Collecting like terms 2.4 Expanding brackets 2.5 Inequalities

		<b>Geometry &amp; Measure</b>	<p><b>UNIT 8: SHAPES &amp; SYMMETRY</b></p> <p>8.1 Identifying the symmetry in 2D shapes 8.2 Circles &amp; polygons 8.3 Recognising congruent shapes 8.4 3D shapes</p>
4.	August	<b>Statistics &amp; Probability</b>  <b>Statistics</b>	<p><b>UNIT 14: POSITION &amp; TRANSFORMATION</b></p> <p>14.1 Maps &amp; plans 14.2 The distance between two points 14.3 Translating 2D shapes 14.4 Reflecting shapes 14.5 Rotating shapes 14.6 Enlarging shapes</p> <p><b>UNIT 6: COLLECTING DATA</b></p> <p>6.1 Conducting an investigation 6.2 Taking a sample</p>
5.	September		<b>MID-TERM ASSESSMENT</b>
6.	October	<b>Number</b>  <b>Number</b>  <b>Number</b>	<p><b>UNIT 7: FRACTIONS</b></p> <p>7.1 Ordering fractions 7.2 Adding mixed numbers 7.3 Multiplying fractions 7.4 Dividing fractions 7.5 Making fraction calculations easier</p> <p><b>UNIT 10: PERCENTAGES</b></p> <p>10.1 Fractions, decimals &amp; percentages 10.2 Percentages large &amp; small</p> <p><b>UNIT 12: RATIO &amp; PROPORTION</b></p> <p>12.1 Simplifying ratios 12.2 Sharing in a ratio 12.3 Using direct proportion</p>
7.	November	<b>Geometry &amp; Measure</b>  <b>Geometry &amp; Measure</b>	<p><b>UNIT 5: ANGLES</b></p> <p>5.1 A sum of <math>360^\circ</math> 5.2 Intersecting lines 5.3 Drawing lines &amp; quadrilaterals</p> <p><b>UNIT 15: SHAPES, AREA &amp; VOLUME</b></p> <p>15.1 Converting between units for area 15.2 Using hectares</p>

			<p>15.3 The area of a triangle      15.4 Calculating the volume of cubes &amp; cuboids      15.5 Calculating the surface area of cubes &amp; cuboids</p>
8.	December	<p><b>Algebra</b></p> <p><b>Algebra; Statistics &amp; Probability</b></p> <p><b>Statistics &amp; Probability</b></p>	<p><b><u>UNIT 9: SEQUENCES &amp; FUNCTIONS</u></b></p> <p>9.1 Generating sequences (1)      9.2 Generating sequences (2)      9.3 Using the nth term      9.4 Representing simple functions</p> <p><b><u>UNIT 11: GRAPHS</u></b></p> <p>11.1 Functions      11.2 Graphs of functions      11.3 Lines parallel to the axes      11.4 Interpreting graphs</p> <p><b><u>UNIT 13: PROBABILITY</u></b></p> <p>13.1 The probability scale      13.2 Mutually exclusive events      13.3 Experimental probabilities</p>
9.	January	<b>Statistics &amp; Probability</b>	<p><b><u>UNIT 16: INTERPRETING RESULTS</u></b></p> <p>16.1 Two-way tables      16.2 Dual &amp; compound bar charts      16.3 Pie charts &amp; waffle diagrams      16.4 Infographics      16.5 Representing data      16.6 Using statistics</p>
10.	February		<b><u>REVISION FOR PROGRESSION TEST</u></b>
11.	February & March		<b><u>PROGRESSION TEST</u></b>

**SUBJECT: SCIENCE**

S.NO	MONTH	STRAND	TOPICS
1.	APRIL	<u>Biology</u>	<b>UNIT – 1: RESPIRATION</b> <ul style="list-style-type: none"> <li>1.1 The human respiratory system</li> <li>1.2 Gas exchange</li> <li>1.3 Breathing</li> <li>1.4 Respiration</li> <li>1.5 Blood</li> </ul>
2.	MAY	<u>Chemistry</u>	<b>UNIT - 2: PROPERTIES OF MATERIALS</b> <ul style="list-style-type: none"> <li>2.1 Dissolving</li> <li>2.2 Solutions and solubility</li> <li>2.3 Planning a solubility investigation</li> <li>2.4 Paper Chromatography</li> </ul>
3.	JULY	<u>Physics</u>	<b>UNIT - 3: FORCES AND ENERGY</b> <ul style="list-style-type: none"> <li>3.1 Forces and motion</li> <li>3.2 Speed</li> <li>3.3 Describing movement</li> <li>3.4 Turning forces</li> <li>3.5 Pressure between solids</li> <li>3.6 Pressure in liquids and gases</li> <li>3.7 Particles on the move</li> </ul>
4.	AUGUST	<u>Biology</u>	<b>UNIT – 4: ECOSYSTEMS</b> <ul style="list-style-type: none"> <li>4.1 The Sonoran Desert</li> <li>4.2 Different ecosystems</li> <li>4.3 Intruders in an ecosystem</li> <li>4.4 Bioaccumulation</li> </ul>
		<u>Chemistry &amp; Earth and Space</u>	<b>UNIT – 5: MATERIALS AND CYCLES ON EARTH</b> <ul style="list-style-type: none"> <li>5.1 The structure of the atom</li> <li>5.2 Purity</li> <li>5.3 Weather and climate</li> <li>5.4 Climate and ice ages</li> <li>5.5 Atmosphere and climate</li> </ul>
5.	SEPTEMBER		Mid Term

6.	OCTOBER	<u>Physics &amp; Earth and space</u>	<b>UNIT - 6: LIGHT</b>  6.1 Reflection 6.2 Refraction 6.3 Making rainbows 6.4 Colours of light 6.5 Galaxies 6.6 Rocks in space
7.	NOVEMBER	<u>Biology</u>	<b>UNIT – 7: DIET AND GROWTH</b>  7.1 Nutrients 7.2 A balanced diet 7.3 Growth, development and health 7.4 Moving the body
8.	DECEMBER	<u>Chemistry</u>	<b>UNIT – 8: CHEMICAL REACTIONS</b>  8.1 Exothermic reactions 8.2 Endothermic reactions 8.3 Reactions of metals with oxygen 8.4 Reactions of metals with water 8.5 Reactions of metals with dilute acids
9.	JANUARY	<u>Physics &amp; Earth and space</u>	<b>UNIT – 9: MAGNETISM</b>  9.1 Magnetic fields 9.2 The Earth as a giant magnet 9.3 Electromagnets 9.4 Investigating electromagnets
10.	FEBRUARY		<b>REVISION FOR PROGRESSION TEST</b>
11.	FEBRUARY/MARCH		<b>PROGRESSION TEST</b>

**SUBJECT: GLOBAL PERSPECTIVE**

S.NO.	MONTH	TOPIC
1.	APRIL/MAY	<b><u>UNIT- I RIGHT TO HAPPINESS (World Issues- Climate change, Poverty, food and water shortage and other problems)</u></b> 1. What are world issues? 2. What is climate change? 3. What are the effects of climate change? 4. How can our energy use change? 5. What is water problem? 6. Food- too little or too much? 7. What is poverty problem? 8. How might poverty be reduced? 9. Unemployment, Corruption and Terrorism
2.	JULY	<b><u>UNIT-II WHEN LESS IS MORE (Sustainability)</u></b> 1. What is sustainability/ sustainable development? 2. Three pillars of Sustainability. 3. What is plastic pollution and how does it affect animals, humans, and the earth? 4. Concept of E-waste 5. Can you be happier with less stuff? 6. Why are humans so bad at thinking about climate change?
3.	JULY	<b><u>UNIT- III MAKING A DIFFERENCE (Changing communities)</u></b> 1. How can you make a difference? 2. How can you change the world? 3. What are the main issues affecting your community? 4. Bullying 5. Unpacking Gender
4.	AUGUST	<b><u>UNIT- IV THE SULTANATE PERIOD (Tradition, culture and identity)</u></b> 1. Introduction 2. Establishment of Delhi Sultanate 3. Five dynasties <ul style="list-style-type: none"><li>• Slave dynasty</li><li>• Khaljis</li><li>• Tughlaqs</li><li>• Sayyids</li><li>• Lodis</li></ul> 4. Administration 5. Architecture 6. Decline and disintegration of Delhi sultanate
5.	SEPTEMBER	<b><u>REVISION FOLLOWED BY MID TERM</u></b>

6.	OCTOBER	<b><u>UNIT - V THE CREATION OF AN EMPIRE (Tradition, culture and identity)</u></b> 1. Introduction 2. Foundation of the empire 3. The great Mughals 4. Administration 5. Architecture 6. Decline of the Mughal Empire 7. Case study- Akbar
7.	NOVEMBER	<b><u>UNIT - VI ALL ABOUT EUROPE</u></b> 1. Introduction 2. Location and extent 3. Political divisions 4. Major physical features 5. Climate 6. Flora & fauna 7. Mineral & power resources 8. Life of the people
8.	DECEMBER	<b><u>UNIT- VII PREDICTING THE FUTURE: FACT OR FICTION (DIGITAL WORLD)</u></b> 1. Can cartoons predict the future? 2. Digital Media and Communication 3. Impact of Technology on society and economy 4. How do I use computers and technology in everyday life? 5. What are the worldwide trends in internet usage? 6. IOT (Internet of things)
9.	DECEMBER	<b><u>UNIT- VIII KNOWING OUR COUNTRY- INDIA</u></b> 1. India- Soils 2. India- Land Resources 3. India- Water Resources 4. India- Forest Resources
10.	JANUARY	<b><u>UNIT- IX NEW POLITICAL FORMATIONS IN THE EIGHTEENTH CENTURY (Tradition, culture and identity)</u></b> 1. Decline of Mughal Empire 2. Rise of independent regional States 3. Emergence of states carved out of old Mughal provinces 4. Evolving of powerful regional kingdoms like Sikh's, Maratha and Jats
11.	FEBRUARY	<b><u>REVISION FOLLOWED BY PROGRESSION TEST</u></b>

**SUBJECT: ICT**

S.NO	MONTH	TOPICS
1.	APRIL - MAY	<u>MS EXCEL</u> Excel Basics Charts Vlookup, Hlookup <b>TYPES AND COMPONENTS OF A COMPUTER SYSTEM</b> Hardware and Software Operating Systems Types of a Computers
2.	JULY	<u>Makecode Arcade</u> Nested Conditional statement Sequencing with block coding Loops: For Loop, while loop, Nested loop
3.	AUGUST	<u>HTML Forms</u> Radio buttons Checkbox Submit button Input statements Textfields
4.	SEPTEMBER	<u>MID-TERM</u>
5.	OCTOBER	<u>ARTIFICIAL INTELLIGENCE</u> Introduction to Python Python basic codes
6.	NOVEMBER	Keyword, identifier, Variables Data Types Print and input command Python Operators
7.	DECEMBER	<u>PYTHON</u> If statements <u>For loop,while loop</u> <u>Break Statement</u> <u>Continue Statement</u>
8.	JANUARY	<u>PYTHON</u> String functions Math functions
9.	FEBRUARY	Revision

S.NO	MONTH	TOPICS	LESSONS TO BE INCLUDED IN TERM 2
1	अप्रैल-मई	1. दो दोहरा दोहरावाचक लेखन (दोहराव) 2. दोहरावाचक (दोहराव) 3. दोहरावाचक दोहराव (दोहराव) <b>रचनात्मक लेखन-</b> <ul style="list-style-type: none"> <li>• अनुच्छेद लेखन</li> <li>• चित्र वर्णन</li> </ul>	<b>1.</b> दोहरावाचक दोहराव (दोहराव) <b>2. चित्र वर्णन</b>
2	मई-जून	4. दोहरावाचक (दोहराव) 5. दोहरा (दोहराव) <b>रचनात्मक लेखन –</b> <ul style="list-style-type: none"> <li>• लघु कथा लेखन</li> <li>• संवाद लेखन</li> </ul>	
3	जून-जुलाई	6. दोहरा दोहरावाचक दोहराव (दोहराव) 7. दोहरा दोहरावाचक दोहराव (दोहराव) <b>रचनात्मक लेखन –</b> <ul style="list-style-type: none"> <li>• नारा लेखन (पोस्टर रचना)</li> <li>• अनुच्छेद लेखन</li>   <li>• प्रतीकाचक लेखन</li> </ul>	
4	जुलाई-अगस्त	दोहरावाचक दोहरावाचक दोहरावाचक	
5	अगस्त-सिताम्बर	8. दोहरावाचक दोहरावाचक दोहरावाचक (दोहराव) 9. दोहरा दोहरा (दोहराव) <b>रचनात्मक लेखन</b> <ul style="list-style-type: none"> <li>• पत्र लेखन</li> <li>• ई मेल लेखन</li> </ul>	
6	सिताम्बर-नवम्बर	10. दोहरावाचक (दोहराव) 11. दोहरावाचक (दोहरावाचक दोहराव) <b>रचनात्मक लेखन –</b> <ul style="list-style-type: none"> <li>• संदेश लेखन</li> <li>• अनुच्छेद लेखन</li> </ul>	
7	नवम्बर-दिसंबर	12. दोहरावाचक दोहरावाचक (दोहराव) 13. दोहरा दोहरा (दोहराव) 14. दोहरा दोहरावाचक दोहराव (दोहराव) (दोहरा दोहराव)	

		<p>रचनात्मक लेखन –</p> <ul style="list-style-type: none"> <li>• आत्मकथा लेखन</li> <li>• डायरी लेखन</li> </ul>	
8	□□□□□	<p>15. □□□□□ □ □ □□□ □□□ □□□-</p> <p>□□□□□ □ □ □□□</p> <p>(□□□□□□□□□□□)</p> <p>16. पापा खो गए (नाटक) - ) गतिविधि -मंचन)</p> <p>रचनात्मक लेखन –</p> <ul style="list-style-type: none"> <li>• विज्ञापन लेखन</li> </ul>	
9	□□□□□	□□□□□□□□□□□	

### SUBJECT: SPANISH

S. No.	Month	Topic	Topics to be included in second term
1.	APRIL	<p>Mi rutina diaria</p> <ol style="list-style-type: none"> <li>1. Uses of preterito perfecto</li> <li>2. Irregular participles forms</li> <li>3. Time frequencies</li> <li>4. Sentence construction</li> <li>5. Talk about recent past activities</li> </ol>	<ol style="list-style-type: none"> <li>1. Uses of preterito perfecto</li> <li>2. Irregular participles forms</li> <li>3. Time frequencies</li> <li>4. Sentence construction</li> <li>5. Talk about recent past activities</li> </ol>
2.	MAY	<p>El tiempo libre</p> <ol style="list-style-type: none"> <li>1. Vocabulary</li> <li>2. Verbs conjugations</li> <li>3. Uses of estar + prepositions</li> </ol>	<ol style="list-style-type: none"> <li>1. Uses of estar + gerund</li> <li>2. Irregular gerund forms</li> <li>3. Sentence construction</li> <li>4. Demonstratives</li> </ol>
3.	JULY	<p>La naturaleza</p> <ol style="list-style-type: none"> <li>1. Adjectives</li> <li>2. Uses of ser</li> <li>3. Uses of estar</li> </ol>	

4.	AUG	El extraterrestre <ul style="list-style-type: none"> <li>5. Uses of estar + gerund</li> <li>6. Irregular gerund forms</li> <li>7. Sentence construction</li> <li>8. Demonstratives</li> </ul>	
5.	SEPT	Revision for MID TERM Assessment	
6.	OCT	Los lugares de interés <ul style="list-style-type: none"> <li>1. Uses of gustar and encantar</li> <li>2. Time frequencies</li> <li>3. Vocabulary</li> <li>4. Self description</li> <li>5. Likes &amp; dislikes</li> </ul>	
7.	NOV	En el parque natural En el dormitorio <ul style="list-style-type: none"> <li>1. Vocabulary</li> <li>2. Basic questions</li> <li>3. Expresar planes</li> </ul>	
8.	DEC	En la calle <ul style="list-style-type: none"> <li>1. Verbs conjugations</li> <li>2. Vocabulary</li> <li>3. Uses of preterito</li> </ul>	
9.	JAN	En el tienda <ul style="list-style-type: none"> <li>1. Uses of hay &amp; Estar</li> <li>2. Vocabulary</li> <li>3. Verbs conjugations</li> <li>4. Sentence construction</li> <li>5. Talk about last journey in spanish</li> </ul>	
10	FEB	Revision for TERM END Assessment	
11.	MARCH	TERM END ASSESSMENT	

**SUBJECT: GERMAN**

S.No.	Month	Topic	Remark (Syllabus to be included in Term End)
1	APRIL	<b>Was isst du in der Pause?</b> 1. Verben "essen, trinken, nehmen" 2. Unbestimmter akkusativ Artikel. 3. Negation 4. Dialoge Schreiben	<b>Lesson 3: Was gibt es im Fernsehen?</b> 1. Verben 'fernsehen', 'sehen' 2. Zeit 3. Preposition: 'um, von, bis'  <b>Lesson 4: Um wie viel Uhr stehst du auf?</b> 1. Verb 'fahren' 2. Trennbare Verben 3. Fragewörter: 'Wann, wohin, wie lange, wie spät?' 4. Temporal-Ergänzung: in, am, um
2	MAY	<b>Meine Schulsachen</b> 1. Verben 'brauchen, finden und suchen' 2. bestimmter Artikel – Akkusativ. 3. Preposition: am 4. Wortschatz(vocabulary) 5. Plural Form 6. Stundenplan (Time-Table)	

3	JULY	<b>Was gibt es im Fernsehen?</b> 1. Verb 'sehen' 2. Redemittel 'es gibt' 3. Personalpronomen 'Akkusativ' 4. Fragewörter ; 'Wann?', 'Um wie viel Uhr stehst du auf?' and 'Von wann bis wann?' 5. Preposition: 'um, von, bis'	
4	AUGUST	<b>Um wie viel Uhr stehst du auf?</b> 1. Verb 'fahren' 2. Trennbare Verben 3. Fragewörter: 'Wann, wohin, wie lange, wie spät?' 4. Unterschied zwischen 'Uhr' und 'Stunde' 5. Temporal-Ergänzung: in, am	
5	SEPTEMBER	Revision for MID TERM Assessment	
6	OCTOBER	<b>Kannst du inlineskaten?</b> 1. Modalverben "können, müssen, wollen" 2. Wortschatz (Vocabulary) 3. Akkusativ Artikel	
7	NOVEMBER	<b>Wem gehört das Fahrrad?</b> 1. Verb 'gehören' 2. Fragewort: 'Wem?' 3. Possessivartikel Nominativ 4. Possessivartikel Akkusativ	
8	DECEMBER	<b>Wohin fährst du in Urlaub?</b> 1. Wortschatz 2. Temporal-Ergänzung: in, am 3. Fragewort: Warum/Wann? 4. Das Wetter	
9	JANUARY	<b>Alles Gute zum Geburtstag!</b>	

		1. Jahreszahlen 2. Datum 3. Das verb 'werden' 4. Imperativ 5. Modalverb 'sollen' 6. Personalpronomen : Akkusativ 7. Fragewörter: Wen? and Wer?	
10	FEBRUARY & MARCH	Revision for TERM END Assessment/TERM END Assessment	

**SUBJECT: FRENCH**

S.No.	Month	Topic	Remark <b>(Syllabus to be included in Term End)</b>
1	APRIL	<b>Lesson 1: Monsieur Lemieux va à Nantes.</b> 1. Verb <<aller,er>> 2. L'heure 3. Les nombres 61-1000 4. Les moyens de transport	1. Verbs <<aller, er,ir >> 2. L'adjectif interrogative 3. La négation 4. Vocabulary
2	MAY	<b>Lesson 3: Le beau tableau de Léa.</b> 1. Feminin et Pluriel des noms 2. Accorder et placer des adjectifs 3. "ir" ending verbs	
3	JULY	<b>Lesson 5: La maison de mes élèves.</b> 1. L'adjectif interrogatif from lesson 4 2. Vocabulaires 3. Les adjectifs possessifs 4. Prepositions 5. La négation 6. Les nombres ordinaux	

4	AUGUST	<b>Lesson 6: Programme d'échange international.</b> <ol style="list-style-type: none"> <li>1. Les pays et les nationalités</li> <li>2. Les prépositions de lieu</li> <li>3. Les verbes &lt;&lt; -tir, venir&gt;&gt;</li> </ol>	
5	SEPTEMBER	Mid-Term Examination	
6	OCTOBER	<b>Lesson 7: Léa achète une nouvelle robe.</b> <ol style="list-style-type: none"> <li>1. Les vêtements</li> <li>2. Les verbes</li> </ol>	
7	NOVEMBER	<b>Lesson 8:C'est délicieux!</b> <ol style="list-style-type: none"> <li>1. Les verbs &lt;&lt;-oir, ger, yer&gt;&gt;</li> <li>2. Les articles partitifs</li> <li>3. La négation</li> </ol>	
8	DECEMBER	<b>Lesson 10 : C'est la fête</b> <ol style="list-style-type: none"> <li>1. Les saisons</li> <li>2. Les fêtes françaises.</li> </ol>	
9	JANUARY	Revision for TERM END Assessment	
10	FEBRUARY	Revision for TERM END Assessment	
11.	MARCH	TERM END ASSESSMENT	