

KOTHARI INTERNATIONAL SCHOOL, NOIDA
CAMBRIDGE LOWER SECONDARY GRADE 7 (STAGE 8)
ANNUAL SYLLABUS (2022-2023)

ENGLISH-

S.NO	MONTH	TOPICS
1.	APRIL	UNIT 1: Nature and humans Writing: Audio Drama Imaginative Accounts Language Focus : Verbs Figures of Speech: Enjambment/End-stopping/ Caesura
2.	MAY	Unit 2 : Grandmother's Song Writing : Analyzing Structure and theme Dialogue writing Language Focus : Figurative Language Reporting Verbs
3.	JULY	Unit 3: Strange Islands Writing: Dialogue writing Monologue Writing Language Focus: Punctuation for effect Strategies for spelling unfamiliar words
4.	AUGUST	Unit 4: This is the modern world Writing: Article for an older audience Persuasive Speech Language Focus: Placement for sentence types Choice of synonyms
5.	SEPTEMBER	TERM 1 (Progression Test)
6.	OCTOBER	Unit 5 : Heroes Writing: Counter-argument writing Blog writing Film script Language Focus: Conjunctions Imperative And Modal Verbs

6.	NOVEMBER	Unit 6 : Monsters Writing: Leaflet Designing Fable Writing Language Focus: Extending Metaphors
7.	DECEMBER	Unit 7 : The Plantation Writing: Diary entry Character's personal account writing Report writing Language Focus: Adjectives Active and Passive Voice
8.	JANUARY	Unit 8 : Choices and Decisions Writing: Drama Scene Writing Poem Writing Language Focus: Adverbs Prepositional Phrases Reported Speech
9.	FEBRUARY	Revision
10.	MARCH	TERM 2 (Progression Test)

MATHEMATICS-

S.NO	MONTH	STRAND	TOPICS
1.	April	Number Number	<u>UNIT 1: INTEGERS</u> 1.1 Factors, multiples & primes 1.2 Multiplying & dividing integers 1.3 Square roots & cube roots 1.4 Indices <u>UNIT 3: PLACE VALUE & ROUNDING</u> 3.1 Multiplying and dividing by 0.1 & 0.01 3.2 Rounding
2.	May	Number Geometry &	<u>UNIT 4: DECIMALS</u> 4.1 Ordering decimals 4.2 Multiplying decimals 4.3 Dividing decimals 4.4 Making decimal calculations easier <u>UNIT 5: ANGLES & CONSTRUCTIONS</u> 5.1 Parallel lines

		Measure	<p>5.2 The exterior angle of a triangle 5.3 Constructions</p> <p><u>PROJECT 2: DIAMOND DECIMALS</u></p>
3.	July	Geometry & Measure	<p><u>UNIT 8: SHAPES & SYMMETRY</u></p> <p>8.1 Quadrilaterals & polygons 8.2 The circumference of a circle 8.3 3D shapes</p> <p><u>PROJECT 3: QUADRILATERAL TILING</u></p>
		Algebra	<p><u>UNIT 2: EXPRESSIONS, FORMULAE & EQUATIONS</u></p> <p>2.1 Constructing Expressions 2.2 Using expressions & formulae 2.3 Expanding brackets 2.4 Factorising 2.5 Constructing & solving equations 2.6 Inequalities</p> <p><u>PROJECT 1: ALGEBRA CHAINS</u></p>
4.	August	Statistics & Probability	<p><u>UNIT6: COLLECTING DATA</u></p> <p>6.1 Data collection 6.2 Sampling</p> <p><u>UNIT 13: PROBABILITY</u></p> <p>13.1 The probability scale 13.2 Mutually exclusive events 13.3 Experimental probabilities</p> <p><u>PROJECT 5: HIGH FIVES</u></p>
5.	September		<u>PROGRESSION TEST-1</u>
6.	October	Number	<p><u>UNIT 7: FRACTIONS</u></p> <p>7.1 Fractions & recurring decimals 7.2 Ordering fractions 7.3 Subtracting mixed fractions 7.4 Multiplying an integer by a mixed number 7.5 Dividing an integer by a fraction 7.6 Making fraction calculations easier</p> <p><u>UNIT 10: PERCENTAGES</u></p> <p>10.1 Percentage increases & decreases 10.2 Using a multiplier</p>

7.	November	Number Geometry & Measure Algebra	<u>UNIT 12: RATIO & PROPORTION</u> 12.1 Simplifying ratios 12.2 Sharing in a ratio 12.3 Ratio & direct proportion <u>UNIT 15: DISTANCE, AREA & VOLUME</u> 15.1 Converting between miles & kilometres 15.2 The area of a parallelogram & a trapezium 15.3 Calculating the volume of triangular prisms 15.4 Calculating the surface area of triangular prisms & pyramids <u>PROJECT 6: BIGGEST CUBOID</u> <u>UNIT 9: SEQUENCES & FUNCTIONS</u> 9.1 Generating sequences 9.2 Finding rules for sequences 9.3 Using the nth term 9.4 Representing simple functions
8.	December	Algebra; Statistics & Probability Statistics & Probability	<u>UNIT 11: GRAPHS</u> 11.1 Functions 11.2 Plotting graphs 11.3 Gradient & intercept 11.4 Interpreting graphs <u>PROJECT 4: STRAIGHT LINE MIX-UP</u> <u>UNIT 14: POSITION & TRANSFORMATION</u> 14.1 Bearings 14.2 The midpoint of a line segment 14.3 Translating 2D shapes 14.4 Reflecting shapes 14.5 Rotating shapes 14.6 Enlarging shapes
9.	January	Statistics & Probability	<u>UNIT 16: INTERPRETING & DISCUSSING RESULTS</u> 16.1 Interpreting & drawing frequency diagrams 16.2 Time series graphs 16.3 Stem-and-leaf diagrams 16.4 Pie charts

			16.5 Representing data 16.6 Using statistics
10.	February		<u>REVISION FOR PROGRESSION TEST-2</u>
11.	February & March		<u>PROGRESSION TEST – 2</u>

SCIENCE-

S.NO	MONTH	STRAND	TOPICS
1.	APRIL	<u>Biology</u>	<u>UNIT – 1 : RESPIRATION</u> 1.1 The human respiratory system 1.2 Gas exchange 1.3 Breathing 1.4 Respiration 1.5 Blood
2.	MAY	<u>Chemistry</u>	<u>UNIT - 2: PROPERTIES OF MATERIALS</u> 2.1 Dissolving 2.2 Solutions and solubility 2.3 Planning a solubility investigation 2.4 Paper Chromatography
3.	JULY	<u>Physics</u>	<u>UNIT - 3: FORCES AND ENERGY</u> 3.1 Forces and motion 3.2 Speed 3.3 Describing movement 3.4 Turning forces 3.5 Pressure between solids 3.6 Pressure in liquids and gases 3.7 Particles on the move
4.	AUGUST	<u>Biology</u>	<u>UNIT – 4: ECOSYSTEMS</u> 4.1 The Sonoran desert 4.2 Different ecosystems 4.3 Intruders in an ecosystem 4.4 Bioaccumulation
			<u>UNIT – 5: MATERIALS AND CYCLES ON EARTH</u>

		<u>Chemistry</u>	
		& <u>Earth and Space</u>	<p>5.1 The structure of the atom 5.2 Purity 5.3 Weather and climate 5.4 Climate and ice ages 5.5 Atmosphere and climate</p>
5.	SEPTEMBER		PROGRESSION TEST – 1
6.	OCTOBER	Physics & Earth and space	<p>UNIT - 6: LIGHT</p> <p>6.1 Reflection 6.2 Refraction 6.3 Making rainbows 6.4 Colours of light 6.5 Galaxies 6.6 Rocks in space</p>
7.	NOVEMBER	Biology	<p>UNIT – 7: DIET AND GROWTH</p> <p>7.1 Nutrients 7.2 A balanced diet 7.3 Growth, development and health 7.4 Moving the body</p>
8.	DECEMBER	Chemistry	<p>UNIT – 8: CHEMICAL REACTIONS</p> <p>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</p>
9.	JANUARY	Physics & Earth and space	<p>UNIT – 9: MAGNETISM</p> <p>9.1 Magnetic fields 9.2 The Earth as a giant magnet 9.3 Electromagnets 9.4 Investigating electromagnets</p>
10.	FEBRUARY		REVISION FOR PROGRESSION TEST 2
11.	FEBRUARY/ MARCH		PROGRESSION TEST - 2

GLOBAL PERSPECTIVES-

S.NO.	MONTH	TOPIC
1.	APRIL/MAY	<p><u>UNIT- I RIGHT TO HAPPINESS (World Issues- Climate change, Poverty, food and water shortage, other problems)</u></p> <ol style="list-style-type: none"> 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	<p><u>UNIT-II WHEN LESS IS MORE (Sustainability)</u></p> <ol style="list-style-type: none"> 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	<p><u>UNIT- III MAKING A DIFFERENCE (Changing communities)</u></p> <ol style="list-style-type: none"> 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	<p><u>UNIT- IV THE SULTANATE PERIOD (Tradition, culture and identity)</u></p> <ol style="list-style-type: none"> 1. Introduction 2. Establishment of Delhi Sultanate 3. Five dynasties <ul style="list-style-type: none"> • Slave dynasty • Khaljis • Tughlaqs • Sayyids • Lodis 4. Administration

	SEPTEMBER	5. Architecture 6. Decline and disintegration of Delhi sultanate <u>REVISION FOLLOWED BY PROGRESSION TEST-I</u>
5.	OCTOBER	<u>UNIT - V THE CREATION OF AN EMPIRE (Tradition, culture and identity)</u> 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
6.	NOVEMBER	<u>UNIT- VI NEW POLITICAL FORMATIONS IN THE EIGHTEENTH CENTURY (Tradition, culture and identity)</u> 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
7.	DECEMBER	<u>UNIT- VII PREDICTING THE FUTURE: FACT OR FICTION (DIGITAL WORLD)</u> 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)
8.	DECEMBER	<u>UNIT - VIII ALL ABOUT EUROPE AND UNITED KINGDOM</u> 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
9.	JANUARY	<u>UNIT- IX KNOWING OUR COUNTRY- INDIA</u> 1. India - Position and extent 2. India - Physiography 3. India - Climate

	FEBRUARY	<u>REVISION FOLLOWED BY PROGRESSION TEST-II</u>
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ICT-

S.NO	MONTH	TOPICS
1.	APRIL - MAY	<u>MS EXCEL</u> Excel Basics Charts Vlookup, Hlookup <u>TYPES AND COMPONENTS OF A COMPUTER SYSTEM</u> Hardware and Software Operating Systems Types of a Computers
2.	JULY	<u>HTML</u> HTML editor Hyperlinks in html Web page designing <u>WORLD WIDE WEB</u> Protocols on the Web Components of Web Uses of WWW
3.	AUGUST	<u>HTML Forms</u> Radio buttons Checkbox Submit button Input statements Textfields
4.	SEPTEMBER	<u>Progression-1</u>
5.	OCTOBER	<u>ARTIFICIAL INTELLIGENCE</u> Introduction to Python Python basic codes
6.	NOVEMBER	Graphic design in python Making shapes
7.	DECEMBER	<u>PYTHON</u> If statements <u>For loop,while loop</u>
8.	JANUARY	<u>PYTHON</u> String functions Math functions
9.	FEBRUARY	Revision
10.	MARCH	Revision

VISUAL ARTS-

MONTH	TOPIC	SUB-TOPIC	MATERIAL REQUIRED
APRIL-MAY	Drawing birds and giving them zentangle art style	Zentangle Art	Sketch Book Sketch pens pencil colours Brushes
July	Independence Day Craft	Independence day craft activity	Pastel sheets tricolor fevicol scissor
August	Kalamkari Art	Folk Art Kalamkari	Drawing sheets Pencil colors Sketch pens
September	Mandala Art	Colorful Mandala Art	Drawing sheets Ear buds Poster colours / Acryliclic colours
October	Mandala Art	Colorful Mandala Art	Drawing sheets Ear buds Poster colours / Acryliclic colours
November	Mud & Mirror Art Work	Folk & Traditional Art	Drawing sheet/ Terrecota plates Mirrors Fevicol Acryliclic Paints
December	Mud & Mirror Art Work	Folk & Traditional Art	Drawing sheet/ Terrecota plates Mirrors Fevicol Acryliclic Paints
January	Mud & Mirror Art Work	Folk & Traditional Art	Drawing sheet/ Terrecota plates Mirrors Fevicol Acryliclic Paints
February	Jamini Roy	Art Work	Ivory sheet./ Sketch Books

SECOND LANGUAGE-

FRENCH-

S.NO	MONTH	TOPICS	LESSONS TO BE INCLUDED IN TERM 2
1	APRIL	Lesson 1: Monsieur Lemieux va à Nantes. 1. Verb <<aller,er>> 2. Les expressions avec <<être>> 3. L'heure 4. Les nombres 61-1000	Lesson 1, 4 & 5. 1. Verb <<aller,er,>> 2. L'adjectif interrogative 3. La négation
2	MAY	Lesson 2: Où vas-tu ? 1. Les articles contractés 2. Les stations de radio en France.	
3	JULY	Lesson 3: Le beau tableau de Léa. Lesson 4 : A l'école. 1. Pluriel des noms 2. L'accord et la place des adjectifs. 3. Faire/jouer	
4	AUGUST	Lesson 4 : A l'école. (Continue) & Lesson 5: La maison de mes élèves. 1. L'adjectif interrogatif 2. Les adjectifs possessifs 3. La négation	
5	SEPTEMBER	Mid-Term Examination	

6	OCTOBER	Lesson 6: Programme d'échange international. 1. Les prépositions de lieu 2. Les verbes << -tir, venir >>	
7	NOVEMBER	Lesson 7: Léa acheté une nouvelle robe. & Lesson 8: C'est délicieux! 1. Les verbes <<-oir, ger, yer>> 2. L'interrogation 3. Les articles partitifs 4. La négation	
8	DECEMBER	Lesson 9: La journée de Kevin 1. Les verbes pronominaux 2. Les articles partitifs.	
9	JANUARY	Lesson 10 : C'est la fête 1. Les expressions avec <<faire>> 2. Les fêtes françaises.	
10	FEBRUARY	Revision for TERM END Assessment	
11.	MARCH	TERM END ASSESSMENT	

GERMAN-

S.NO	MONTH	TOPICS	LESSONS TO BE INCLUDED IN TERM 2
1	APRIL	Was isst du in der Pause? 1. Verb "essen, trinken, nehmen" 2. Unbestimmter akkusativ Artikel. 3. Negation 4. Dialoge Schreiben	Lesson 3: Was gibt es im Fernsehen? 1. Verben fernsehen, sehen 2. Zeit 3. Präposition: 'um, von, bis' Lesson 4: Um wie viel Uhr stehst du auf? 1. Verb 'fahren' 2. Trennbare Verben 3. Fragewörter: 'Wann, wohin, wie lange, wie spät?'

			4. Temporal-Ergänzung: in, am
2	MAY	<p>Meine Schulsachen</p> <p>1.Verben 'brauchen, finden und suchen'</p> <p>2. bestimmter Artikel – Akkusativ.</p> <p>3. Preposition: am</p> <p>4. Wortschatz(vocabulary)</p> <p>5. Plural Form</p> <p>6. Stundenplan (Time-Table)</p>	
3	JULY	<p>Was gibt es im Fernsehen?</p> <p>1.Verb 'sehen'</p> <p>2. Redemittel 'es gibt'</p> <p>3. Personal Pronomen 'Akkusativ'</p> <p>4. Fragewörter ; 'Wann?', 'Um wie viel Uhr stehst du auf?' and 'Von wann bis wann?'</p> <p>5. Preposition: 'um, von, bis'</p>	
4	AUGUST	<p>Um wie viel Uhr stehst du auf?</p> <p>1.Verb 'fahren'</p> <p>2.Trennbare Verben</p> <p>3. Fragewörter: 'Wann, wohin, wie lange, wie spät?'</p> <p>4. Unterschied zwischen 'Uhr' und 'Stunde'</p> <p>5. Temporal-Ergänzung: in, am</p>	
5	SEPTEMBER	<p>Revision for MID TERM Assessment</p>	
6	OCTOBER	<p>Kannst du inlineskaten?</p> <p>1.Modal Verben " können, müssen, wollen"</p> <p>2. Wortschatz (vocabulary)</p> <p>3. Akkusativ Artikel</p>	
7	NOVEMBER	<p>Wem gehört das Fahrrad?</p> <p>1. verb 'gehören'</p> <p>2. Fragewort: 'Wem?'</p> <p>3. Possessiv Artikel</p> <p>4. Possessiv Artikel Akkusativ</p>	
8	DECEMBER	<p>Wohin fährst du in Urlaub?</p> <p>1.Wortschatz</p> <p>2.Temporal-Ergänzung: in, am</p> <p>3. Fragewort: Warum/Wann?</p> <p>4.Das Wetter</p>	
9	JANUARY	<p>Alles Gute zum Geburtstag!</p> <p>1. Jahreszahlen</p>	

		2. Datum 3. Das verb 'werden' 4. Imperativ 5. Modalverb 'sollen' 6. Personal Pronomen : Akkusativ 7. Fragewort : Wen?	
10	FEBRUARY	Revision for TERM END Assessment	
11	MARCH	TERM END ASSESSMENT	

SPANISH-

S. No.	Month	Topic	Topics to be included in second term
1.	APRIL	HEMOS IDO AL PARQUE SAFARI 1. Uses of preterito perfecto 2. Irregular participles forms 3. Time frequencies 4. Sentence construction 5. Talk about recent past activities	LECCION 9: HEMOS IDO AL PARQUE SAFARI 1. Uses of preterito perfecto 2. Irregular participles forms 3. Time frequencies 4. Sentence construction 5. Talk about recent past activities
2.	MAY	MUNDO ANIMAL 1. Vocabulary 2. Verbs conjugations 3. Uses of estar + prepositions	LECCION 12: ?QUE ESTAS HACIENDO? 1. Uses of estar + gerund 2. Irregular gerund forms 3. Sentence construction 4. Demonstratives
3.	JULY	CARMEN ES SIMPATICA 1. Adjectives 2. Uses of ser 3. Uses of estar	
4.	AUG	?QUE ESTAS HACIENDO? 5. Uses of estar + gerund 6. Irregular gerund forms	

		7. Sentence construction 8. Demonstratives	
5.	SEPT	Revision for MID TERM Assessment	
6.	OCT	<p>TIEMPO LIBRE</p> <p>1. Uses of gustar and encantar 2. Time frequencies 3. Vocabulary 4. Self description 5. Likes & dislikes</p>	
7.	NOV	<p>LOS DEPORTES</p> <p>1. Vocabulary 2. Basic questions 3. Expresar planes</p>	
8.	DEC	<p>!VACACIONES!</p> <p>1. Verbs conjugations 2. Vocabulary 3. Uses of preterito</p>	
9.	JAN	<p>CAMPAMENTO DE VERANO</p> <p>1. Uses of hay & Estar 2. Vocabulary 3. Verbs conjugations 4. Sentence construction 5. Talk about last journey in spanish</p>	
10	FEB	Revision for TERM END Assessment	
11.	MARCH	TERM END ASSESSMENT	

HINDI-

S.NO	MONTH	TOPICS	LESSONS TO BE INCLUDED IN TERM 2
1	अप्रैल- मई	1. हम पंछी उन्मुक्त गगन के (कविता) नुक्ता 2. मिठाईवाला (कहानी) 3. अपूर्व अनुभव (संस्मरण) • व्याकरणिक बिंदु – संज्ञा 4. रक्त और हमारा शरीर (पठन हेतु) • व्याकरणिक बिंदु – लिंग, वचन, विलोम	1. हम पंछी उन्मुक्त गगन के (कविता) 2. संज्ञा
2	जुलाई	5. कठपुतली (कविता) 6. हिमालय की बेटियाँ (परिचर्चा) 7. कंचा (कहानी) • व्याकरणिक बिंदु :- सर्वनाम	
3	अगस्त	8. पापा खो गए (नाटक) • चित्र वर्णन व्याकरणिक बिंदुः कारक 9. शाम एक किसान (कविता) • पुनरावृत्ति	
4	सितम्बर	अर्द्ध वार्षिक परीक्षा	
5	अक्तूबर	10. खानपान की बदलती तस्वीर (परिचर्चा) व्याकरणिक बिंदुः विराम चिह्न 11. रहीम के दोहे (कविता) 12. दादी माँ (कहानी) व्याकरणिक बिंदुः क्रिया तथा काल	
6	नवम्बर	13. एक तिनका (कविता) 14. नीलकंठ (रेखाचित्र) • पत्र लेखन व्याकरणिक बिंदुः विशेषण	

7	दिसम्बर	16. चिड़िया की बच्ची (कहानी) 18. वीर कुँवर सिंह (जीवनी) (पठन हेतु)	
8	जनवरी	19. संघर्ष के कारण मैं तुनक-मिज़ाज हो गया (साक्षात्कार) <ul style="list-style-type: none"> • व्याकरणिक बिंदु:- अशुद्धि शोधन • व्याकरणिक बिंदु :- अनेक शब्दों के लिए एक शब्द 	
9	फरवरी	पुनरावृत्ति	