

**KOTHARI INTERNATIONAL SCHOOL, NOIDA**  
**CAMBRIDGE LOWER SECONDARY GRADE 6 (STAGE 7)**  
**ANNUAL SYLLABUS (2022-2023)**

**ENGLISH**

S.No.	MONTH	TOPIC
1.	APRIL	UNIT 1: ADVENTURE  Writing Summarize genre features Writing monologues Analyzing meanings of poems Story writing Language Sentence Types Alliteration and Sibilance Powerful Verbs
2.	MAY	UNIT2: SCIENCE FICTION  Writing Writing about themes Descriptive writing Language Sentence Openings Compound and Complex sentences Formal and Informal language

3.	JULY	UNIT 3: Film and Fame Writing Article writing Film review Speech writing Language Direct speech Noun-adjective combination
4.	AUGUST	Unit 4: Small but perfect Writing Flash Fiction Writing poetry Haiku and Imagist poetry Language Time connectives Prefixes
5.	SEPTEMBER	TERM 1 (PROGRESSION TEST)
6.	OCTOBER	Unit 5: Unusual Education Writing Letter Writing Script Writing Language Colon Connectives
7.	NOVEMBER	Unit 6: Life Stories  Writing Language and Letter analysis Persuasive writing  Language Rhyme and Rhythm Voice Embedded clause

8.	DECEMBER	Unit 7:The Travel Agency Unit 8: In the City  Writing Writing Narratives Diary entry Travel articles Writing a brochure  Language Word order Personification Punctuation
9.	JANUARY	Unit 9: Dangers of the Sea  Writing Poetry analysis Story extension Language Poetic Language
10.	FEBRUARY	REVISION FOR TERM END ASSESSMENT
11.	MARCH	TERM 2 (PROGRESSION TEST)

## MATH

S.NO.	MONTHS	STRANDS	TOPICS
1.	April	Number  Number	<u>UNIT 1: INTEGERS</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>PROJECT 1: MIXED-UP PROPERTIES</u>  <u>UNIT 3: PLACE VALUE &amp; ROUNDING</u> 3.1 Multiplying and dividing by powers of 10 3.2 Rounding

2.	May	Number	<u>UNIT 4: DECIMALS</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  Geometry & Measure	<u>UNIT 2: EXPRESSIONS, FORMULAE &amp; EQUATIONS</u> 2.1 Constructing Expressions 2.2 Using expressions & formulae 2.3 Collecting like terms 2.4 Expanding brackets 2.5 Inequalities  <u>UNIT 8: SHAPES &amp; SYMMETRY</u> 8.1 Identifying the symmetry in 2D shapes 8.2 Circles & polygons 8.3 Recognising congruent shapes 8.4 3D shapes
4.	August	Statistics & Probability  Statistics	<u>UNIT 14: POSITION &amp; TRANSFORMATION</u> 14.1 Maps & 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  <u>UNIT 6: COLLECTING DATA</u> 6.1 Conducting an investigation 6.2 Taking a sample
5.	September		<u>PROGRESSION TEST-1</u>
6.	October	Number	<u>UNIT 7: FRACTIONS</u> 7.1 Ordering fractions 7.2 Adding mixed numbers 7.3 Multiplying fractions 7.4 Dividing fractions 7.5 Making fraction calculations easier  <u>PROJECT 3: FRACTION AVERAGES</u>

		Number	<u>UNIT 10: PERCENTAGES</u> 10.1 Fractions, decimals & percentages 10.2 Percentages large & small
7.	November	Number  Geometry & Measure  Geometry & Measure	<u>UNIT 12: RATIO &amp; PROPORTION</u> 12.1 Simplifying ratios 12.2 Sharing in a ratio 12.3 Using direct proportion  <u>UNIT 5: ANGLES</u> 5.1 A sum of $360^\circ$ 5.2 Intersecting lines 5.3 Drawing lines & quadrilaterals  <u>PROJECT 2: CLOCK RECTANGLES</u>  <u>UNIT 15: SHAPES, AREA &amp; VOLUME</u> 15.1 Converting between units for area 15.2 Using hectares 15.3 The area of a triangle 15.4 Calculating the volume of cubes & cuboids 15.5 Calculating the surface area of cubes & cuboids <u>PROJECT 6: REMOVING CUBES</u>
8.	December	Algebra  Algebra; Statistics & Probability	<u>UNIT 9: SEQUENCES &amp; FUNCTIONS</u> 9.1 Generating sequences (1) 9.2 Generating sequences (2) 9.3 Using the nth term 9.4 Representing simple functions  <u>PROJECT 4: MOLE &amp; GOOSE</u>  <u>UNIT 11: GRAPHS</u> 11.1 Functions 11.2 Graphs of functions 11.3 Lines parallel to the axes 11.4 Interpreting graphs

		Statistics & Probability	<u>PROJECT 5: FOUR STEPS</u>  <u>UNIT 13: PROBABILITY</u> 13.1 The probability scale 13.2 Mutually exclusive events 13.3 Experimental probabilities
9.	January	Statistics & Probability	<u>UNIT 16: INTERPRETING RESULTS</u> 16.1 Two-way tables 16.2 Dual & compound bar charts 16.3 Pie charts & waffle diagrams 16.4 Infographics 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>CHEMISTRY</u> & <u>EARTH</u>	<u>INTRODUCTION TO THE STRANDS OF SCIENCE - PHYSICS, CHEMISTRY, BIOLOGY, EARTH AND SPACE</u>  <u>INTRODUCTION TO SCIENTIFIC ENQUIRY AND LAB APPARATUS</u> <u>UNIT- 1: CELLS</u>  <u>1.1</u> Plant cells <u>1.2</u> Animal cells <u>1.3</u> Specialized cells <u>1.4</u> Cells. Tissues and organs  <u>UNIT- 2: MATERIALS AND THEIR STRUCTURE</u>

2.	APRIL/MAY	<u>AND SPACE</u>  <u>PHYSICS</u> & <u>EARTH</u> <u>AND SPACE</u>	<b>2.1</b> Solids, liquids and gases <b>2.2</b> Changes of state <b>2.3</b> Explaining changes of state <b>2.4</b> The Water cycle <b>2.5</b> Atoms, molecules and the Periodic table <b>2.6</b> Compounds and formulae <b>2.7</b> Compounds and mixtures  <u>UNIT – 3: FORCES AND ENERGY</u>  <b>3.1</b> Gravity, weight and mass <b>3.2</b> Formation of the Solar System <b>3.3</b> Movement in space <b>3.4</b> Tides <b>3.5</b> Energy <b>3.6</b> Changes in energy <b>3.7</b> Where does energy go?  <u>UNIT- 4: GROUPING AND IDENTIFYING ORGANISMS</u>  <b>4.1</b> Characteristics of living organisms <b>4.2</b> Viruses <b>4.3</b> What is a species? <b>4.4</b> Using keys <b>4.5</b> Constructing keys
3.	JULY	<u>BIOLOGY</u>	

4.	AUGUST	<u>CHEMISTRY</u>	<u>UNIT- 5: PROPERTIES OF MATERIALS</u>  <b>5.1</b> Metals and non-metals <b>5.2</b> Comparing metals and non-metals <b>5.3</b> Metal mixtures <b>5.4</b> Using the properties of materials to separate mixtures <b>5.5</b> Acids and alkalis <b>5.6</b> Indicators and the PH scale
5.	SEPTEMBER		<u>PROGRESSION TEST -1</u>
6.	OCTOBER	<u>PHYSICS</u> <u>&amp; EARTH</u> <u>AND SPACE</u>	<u>UNIT - 6: EARTH PHYSICS</u>  <b>6.1</b> Sound Waves <b>6.2</b> Reflections of sound <b>6.3</b> Structure of the Earth <b>6.4</b> Changes in the Earth <b>6.5</b> Solar and Lunar eclipses
7.	NOVEMBER	<u>BIOLOGY</u>	<u>UNIT- 7: MICROORGANISMS IN THE ENVIRONMENT</u>  <b>7.1</b> Microorganisms <b>7.2</b> Food chains and webs <b>7.3</b> Microorganisms and decay <b>7.4</b> Microorganisms in food webs
8.	DECEMBER	<u>CHEMISTRY</u>	<u>UNIT - 8: CHANGES TO MATERIALS</u>  <b>8.1</b> Simple chemical reactions <b>8.2</b> Neutralisation <b>8.3</b> Investigating acids and alkalis <b>8.4</b> Detecting chemical reactions

	JANUARY		<u>UNIT - 9: ELECTRICITY</u>
9.	FEBRUARY		<b>9.1</b> Flow of electricity <b>9.2</b> Electrical circuits <b>9.3</b> Measuring the flow of current <b>9.4</b> Conductors and insulators <b>9.5</b> Adding or removing components <u>REVISION FOR PROGRESSION TEST -2</u> <u>PROGRESSION TEST -2</u>
10.	FEBRUARY/MA RCH		
11.			

### GLOBAL PERSPECTIVES

S.NO	MONTH	TOPIC
1.	APRIL	<ul style="list-style-type: none"> <li>● <u>INTRODUCTION TO THE STRANDS- HISTORY, CIVICS, GEOGRAPHY, ECONOMICS</u></li> <li>● <u>INTRODUCTION TO RESEARCH SKILLS</u></li> </ul> <u>UNIT- I Your Passport to the World</u> <ol style="list-style-type: none"> <li>1. What is Geography?</li> <li>2. What is the value and use of geography?</li> <li>3. Types of geography</li> <li>4. Themes of Geography</li> <li>5. How can we find out where places are?</li> </ol>
2.	MAY	<u>UNIT-II Globes- Latitudes, Longitudes</u> <ol style="list-style-type: none"> <li>1. Equator-an important imaginary line</li> <li>2. Important parallels of Latitudes</li> <li>3. Heat zones of the Earth</li> <li>4. What are Longitudes</li> <li>5. Longitude and time</li> <li>6. Why do we have standard time?</li> <li>7. International Date line</li> </ol>
3.	JULY	<u>UNIT- III Planetary Motions</u>

		<ul style="list-style-type: none"> <li>1. Rotations of the Earth- 24hours</li> <li>2. Revolution of the Earth-a year</li> <li>3. Equinoxes, Summer solstice and Winter solstice</li> </ul>
4.	JULY	<p><u>UNIT- IV Domains of the earth</u></p> <ul style="list-style-type: none"> <li>1. Lithosphere</li> <li>2. Atmosphere</li> <li>3. Hydrosphere</li> <li>4. Biosphere</li> </ul>
5.	AUGUST	<p><u>UNIT- V What is government</u></p> <ul style="list-style-type: none"> <li>1. Meaning</li> <li>2. Types of government</li> <li>3. key elements of a democracy</li> <li>4. Comparing two democracies (India and USA)</li> </ul>
6.	SEPTEMBER	<p><u>REVISION FOLLOWED BY PROGRESSION TEST- I</u></p>
7.	OCTOBER	<p><u>UNIT - VI Maps and their essential features</u></p> <ul style="list-style-type: none"> <li>1. How can we use maps?</li> <li>2. How can we show direction?</li> <li>3. How can we measure distance?</li> <li>4. How do we use map symbols?</li> <li>5. What are grid references?</li> <li>6. How do we use grid references?</li> </ul> <p><u>Comparative Study of the continents North America and South America</u></p> <p>Introduction, Location and extent, Political divisions, Major physical features, Climate, Flora &amp; fauna, Mineral &amp; power resources, Life of the people</p>
8.	NOVEMBER	<p><u>UNIT- VII The river valley civilization: Emergence of the first cities</u></p> <ul style="list-style-type: none"> <li>1. Indus valley Civilization</li> <li>2. Egyptian Civilization</li> </ul>

		<p>3. Mesopotamian Civilization</p> <p>4. Chinese civilization</p> <ul style="list-style-type: none"> <li>● Social life</li> <li>● Economic life</li> <li>● Religion</li> <li>● Art and Architecture</li> <li>● Administration</li> <li>● Decline</li> </ul>
9.	DECEMBER	<p><u>UNIT- VIII Belief systems</u></p> <p>1. Social conditions for the rise of Buddhism and Jainism</p> <p>2. Vardhamana Mahavira / Gautama Buddha</p> <ul style="list-style-type: none"> <li>● Early life</li> <li>● Teachings</li> <li>● Spread of the two religions</li> <li>● Decline</li> </ul> <p>3. A comparative study between Buddhism and Jainism</p>
10.	DECEMBER	<p><u>UNIT- IX An Emperor who gave up war</u></p> <p>1. What is an empire?</p> <p>2. The invasion of Alexander the great.</p> <p>3. Chandragupta Maurya</p> <p>4. Bindusara and Ashoka the great</p> <p>5. The Mauryan Administration</p>
11.	JANUARY	<p><u>UNIT- X KNOWING OUR COUNTRY- INDIA</u></p> <p>1. India - Position and extent</p> <p>2. India - physiography</p> <p>3. India - Climate</p>
12.	FEBRUARY	<u>REVISION FOLLOWED BY PROGRESSION TEST-II</u>

## ICT

S.NO	MONTH	TOPICS
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1.	APRIL - MAY	<u>MS EXCEL</u> Introduction Data Entry Sorting Data Formulas Cell Reference
2.	JULY	<u>HTML</u> HTML Introduction HTML Basics HTML Tags <u>HTML Elements</u> Paragraph tag Line break tag <u>HTML TAGS</u> Important tags No break tag Comment tag Hyperlinks in html
3.	AUGUST	<u>MIT APP INVENTOR</u> BLOCKS PROPERTIES CODING
4.	SEPTEMBER	TERM 1 (Progression Test)
5.	OCTOBER	<u>ARTIFICIAL INTELLIGENCE</u> Basics AI CONNECT Applications of Coding Flowchart Pseudocode Getting Started with Block Coding
6.	NOVEMBER	<u>PYTHON</u> Statements Operators Print Statement
7.	DECEMBER	<u>PYTHON</u> Input statements If statement

8.	JANUARY	<u>PYTHON CODES</u>
9.	FEBRUARY	Revision
10.	MARCH	Revision

**SECOND LANGUAGE****FRENCH**

S.NO	MONTH	TOPICS	LESSONS TO BE INCLUDED IN TERM 2
1	APRIL	Lesson 1: La France Lesson 2: Bonjour 1. Introduction 2. Les Salutations	Lesson 1,4 & 5. 1.Indefinis articles 2. Verbs <> 3. Qui est ce /Qu'est ce que c'est ?
2	MAY	Lesson 3 : Pour Compter 1. Les nombres 2. Les alphabets	
3	JULY	Lesson 4: On pose des questions 1. Qu'est ce que c'est ? 2. Qui est -ce ? 3. Les articles indefinis 4. Pluriel de noms	
4	AUGUST	Lesson 5 : Mon Meilleur ami 1. Le verbe<<être>> 2. Les adjectifs 3. Se presenter	
5	SEPTEMBER	Mid-Term Examination	
6	OCTOBER	Lesson 6: Tu es de quel pays ? 1. Le verbe <<avoir>> 2. Les pays et nationalité	
7	NOVEMBER	Lesson 7: Le week-end	

		<ol style="list-style-type: none"> <li>1. Les jours de la semaine</li> <li>2. Le verbe &lt;&lt;aller&gt;&gt;</li> <li>3. Les nombres ordinaux</li> </ol>	
8	DECEMBER	Lesson 8 : Ma famille <ol style="list-style-type: none"> <li>1. Les verbes &lt;&lt;er&gt;&gt;</li> <li>2. Les adjectifs possessifs</li> </ol>	
9	JANUARY	Lesson 9 : Bon anniversaire & Lesson 10 : Ma saison préférée <ol style="list-style-type: none"> <li>1. Les mois de l'année</li> <li>2. Les saisons</li> <li>3. Les couleurs</li> </ol>	
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	Hello! 1. Verb 'heißen' und 'sein' 2. Frage Wort: 'Wie?' and 'Wer?' 3. Zahlen: 1-20	Lesson 4: Wo wohnt ihr? 1. Personal Pronomen-Plural 2. Verb 'wohnen' 3. Wortschatz 4. bestimmter /unbestimmter Artikel
2	MAY	Das ist meine Familie 1. 3 <sup>rd</sup> Person Singular 2. Bestimmter Artikel 3. Possessiv Pronomen	

3	JULY	Hast du Geschwister? 1. Akkusativ Artikel 2. Verb 'haben' 3. Höflich Form 'Sie' 4. W- Fragen und Ja/nein Frage	
4	AUGUST	Wo wohnt ihr? 1. Personal Pronomen-Plural 2. Verb 'wohnen' 3. Wortschatz 4. bestimmter /unbestimmter Artikel	
5	SEPTEMBER	Mid-Term Examination	
6	OCTOBER	Das Haus von Familie Weigel 1. Wortschatz 2. Bestimmte und unbestimmte Artikels (der/die/das) (ein/eine/ ein) 3. Negation (nicht/kein/keine) 4. Fragewort: Was (ist).. ? 5. Demonstrativ Pronomen: Das (ist)	
7	NOVEMBER	Ein Besuch 1. Begrüßung 2. Formen von 'möchten' 3. Personal Pronomen (mir/dir/Ihnen)	
8	DECEMBER	Mautzi unsere Katze 1. Haustiere 2. Formen von 'mögen' und 'haben' 3. Akkusativ: unbestimmter Artikel, negation unbestimmter Artikel	
9	JANUARY	Die Nachbarn von Familie Weigel 1. Präsens von Verb 'sprechen'	

		2. Ländernamen 3. Fragewort: Woher? 4. Preposition: 'aus/in'	
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	Mi primer contacto con el español 1. Alphabets 2. Letters and sounds 3. Genders 4. Greeting & see off in Spanish 5. Small introduction in Spanish 6. Numbers	Todo sobre mí 1. Subject pronouns 2. Verbs 3. Sentence formation 4. Nationalities 5. Professions 6. Introduction
2.	MAY	Todo sobre mí 1. Subject pronouns 2. Verbs 3. Sentence formation 4. Nationalities 5. Professions 6. Introduction	
3.	JULY	La clase de Español 1. classroom expressions	

		2. Articles 3. Colors 4. Days and months 5. Seasons and climate	
4.	AUG	Feliz cumpleaños  1. Zodiac signs 2. verb- estar 3. Possessive adjectives 4. Family tree	
5.	SEPT	Revision for MID TERM Assessment	
6.	OCT	Mi casa  1. Prepositions of places 2. Regular verbs 3. Sentence formation 4. Negation 5. Question formation	
7.	NOV	Nuestra escuela  1. Subjects 2. Subjects related vocabulary 3. Irregular verbs	
8.	DEC	Mi ciudad es tu ciudad  1. Directions 2. Use of hay	

		3. Gustar verb 4. Demonstrative adjective 5. Pickle changing verbs	
9.	JAN	Mi mejor amigo  1. Description 2. Adjectives with SER 3. El cuerpo(body) 4. Prendas de vestir(clothes)	
10	FEB	Revision for TERM END Assessment	
11.	MARCH	TERM END ASSESSMENT	

## HINDI

S.N O	MONTH	TOPICS	LESSONS TO BE INCLUDED IN TERM 2
1	अप्रैल-मई	1. अक्षरों का महत्व (निबंध) 2. वह चिड़िया जो (कविता)  3. नादान दोस्त (कहानी)  4. बचपन (संस्मरण) संज्ञा	1.वह चिड़िया जो (कविता)  ●
3	अगस्त	7. टिकट अलबम (कहानी) 8. लोकगीत ( परिचर्चा ) • चित्र वर्णन व्याकरणिक बिंदुः कारक • पूनरावृत्ति	
4	सितम्बर	अर्द्ध वार्षिक परीक्षा	

5	अक्टूबर	9. ऐसे-ऐसे (एकांकी) ● व्याकरणिक बिंदुः:- विराम चिह्न  10. मैं सबसे छोटी होऊँ (कविता) व्याकरणिक बिंदुः:- क्रिया तथा काल	
6	नवम्बर	11. जो देखकर भी नहीं देखते ( निबंध) व्याकरणिक बिंदुः:- अशुद्धि संशोधन 12. झाँसी की रानी ( कविता)	
7	दिसम्बर	13. संसार पुस्तक है (पत्र ) 14. साँस-सांस में बाँस (पठन हेतु) ● पत्र लेखन व्याकरणिक बिंदुः:- विशेषण	
8	जनवरी	15. नौकर (निबंध) 16. गीत-साथी हाथ बढ़ाना (सस्वर गायन) ● वर्ग पहेली व्याकरणिक बिंदुः:- अनेक शब्दों के लिए एक शब्द	
9	फरवरी	पुनरावृत्ति	

## संस्कृत

क्रम. संख्या	मास	उपविषय	गतिविधि
1	अप्रैल - मई	संस्कृत – शब्द - परिचय : धातु परिचय: प्रथम पुरुषः (त्रिषु लिंगेषु ) मध्यम पुरुषः (उभयलिंगयो )	आत्म परिचयं
2	जुलाई	उत्तम पुरुषः (उभयलिंगयो ) अव्ययपदानि कर्ता कारक :- प्रथमा विभक्ति	विद्यालय परिचयं
3	अगस्त	कर्म कारकः- द्वितिया विभक्ति एवं पुनरावृत्ति	मित्र परिचयं
4	सितंबर	सप्त श्लोकाः	श्लोकोच्चारणं
5	अक्टूबर	करण कारकः - तृतीया विभक्ति सम्प्रदान कारकः- चतुर्थी विभक्ति	वाक्य रचना

6	नवंबर	अपादान कारक:- पञ्चमी विभक्ति संबंध कारक:- षष्ठी विभक्ति	सूक्ति (स्लोगन) लेखनम्
8	दिसंबर	आधिकरण कारक:- सप्तमी विभक्ति	वाक्य रचना
9	जनवरी	संबोधनम् लृट्लकारः	वार्तालापं
10	फरवरी	संख्यावाचिन : शब्दाः पुनरावृत्ति	फलानां नामानि

## VISUAL ARTS

S. NO	MONTH	TOPIC
1	April	Water Colour Painting- Birds
2	May	Water Colour painting- Birds
3	July	Flower Making
4	August	Flower Study
5	September	Still Life- Object Drawing
6	October	Tessellations
7	November	Nature Drawing
8	December	Christmas Craft
9	January	Landscape Drawing
10	February	Human Figures- with basic shapes

