

Espalier Heritage School  
Annual Planner 2025-26

<b>Grade: 6</b>	<b>Subject: Maths</b>		<b>Created By: Gouri Dixit, Trupti Borse</b>
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Grade: 6		Subject: Maths				Created By: Gouri Dixit, Trupti Borse			
Sr No	Lesson Name	Points To Cover	Lesson Flow	Learning objectives	Methodology	Pedagogical process	Learning outcomes	Teaching Aid	Class Activities /Diagrams / Map work
1	<b>Patterns in Mathematics</b>	Patterns in maths: Number sequence and shape sequence	Set induction to check the previous knowledge of student about numbers. Introduction through daily-life patterns → exploration of number and shape sequences → guided practice → activity → recap.	Students will explore the number and different shape sequences. Students will identify, extend, and create number and shape patterns using logical reasoning.	Discussion, pattern observation, teacher demonstration, and student hands-on exploration.	The learner may be provided opportunities in pairs/groups/ individually.	Learners will correctly recognize and generate number and shape sequences and explain the rule behind them.	Number cards, shape cut-outs, pattern strips, grid paper, and a simple PPT/chart showing growing patterns.	Activity: Students complete a pattern gallery walk by extending given number sequences and drawing the next shapes in visual patterns.
2	<b>Lines and Angles</b>	Introduction to basic geometrical ideas.	Observation of objects around us → introduction of basic geometrical terms → explanation with examples → guided practice → activity and recap.	Students will understand and identify basic geometrical ideas like point, line, line segment, ray, and plane.	Observation, demonstration, discussion, and activity-based learning.	Engage with real-life objects → explore geometrical ideas → explain definitions and examples → apply through drawing and identification → assess understanding.	Students will be able to recognize, name, and represent basic geometrical ideas correctly.	Textbook (Ganit Prakash), geometry kit, charts, blackboard/smart board.	Students identify and draw basic geometrical figures from objects in the classroom.
		Comparing angles	Recall of angles in daily life → introduction to comparing angles → demonstration with models → guided practice → activity and recap.	Students will learn to compare angles using observation and simple tools.	Demonstration, discussion, hands-on practice, and activity-based learning.	Engage with real-life examples → explore angle opening → explain methods of comparison → apply learning through activities → assess understanding.	Students will be able to identify, compare, and classify angles as smaller, larger, or equal.	Geometry kit, angle cut-outs, textbook (Ganit Prakash), blackboard/smart board.	Students compare given angles using paper folding or angle cut-outs and state which is bigger or smaller.
		Types of angles	Recall of angle concept → introduction of different types of angles → demonstration with examples → guided practice → activity and recap.	Students will identify and classify angles based on their measures.	Demonstration, discussion, questioning, and activity-based learning.	Engage with real-life angles → explore angle measures → explain classification → apply learning through activities → assess understanding.	Students will be able to recognize and name different types of angles correctly.	Geometry kit, angle charts, textbook (Ganit Prakash), blackboard/smart board.	Students identify types of angles in classroom objects or draw examples for each type.
		Measuring angles using protractor	Recall of types of angles → introduction to the protractor → demonstration of steps → guided practice → activity and recap.	Students will learn to measure angles accurately using a protractor.	Demonstration, hands-on practice, questioning, and activity-based learning.	Engage with angle revision → explore parts of a protractor → explain measuring steps → apply through practice → assess understanding.	Students will be able to measure and record angles correctly using a protractor.	Protractor, geometry box, angle charts, textbook (Ganit Prakash), blackboard/smart board.	Students measure angles drawn on paper using a protractor and note their measures.

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		Drawing angles using protractor.	Recall of angle measurement → introduction to drawing angles → demonstration with a protractor → guided practice → activity and recap.	Students will learn to draw angles of given measures accurately using a protractor.	Demonstration, hands-on practice, discussion, and activity-based learning.	Engage with angle revision → explore protractor parts → explain steps to draw angles → apply learning through drawing → assess understanding.	Students will be able to draw angles of specified measures correctly using a protractor.	Protractor, geometry box, graph paper, textbook (Ganit Prakash), blackboard/smart board.	Students draw angles of 30°, 45°, 60°, and 90° using a protractor and verify with peers.
		Types of angles and their measures.	Recall angle concept → introduction of different types of angles with measures → demonstration → guided practice → activity and recap.	Students will identify, classify, and measure angles according to their types.	Demonstration, discussion, hands-on practice, and activity-based learning.	Engage with real-life examples → explain angle types and their ranges → show measurement with protractor → apply learning through practice → assess understanding.	Students will be able to name types of angles, state their measures, and measure them accurately.	Protractor, geometry box, angle charts, textbook (Ganit Prakash), blackboard/smart board.	Students measure given angles using a protractor and classify them as acute, right, obtuse, straight, reflex, or full rotation.
3	<b>Number Play</b>	Numbers can tell us things	Discussion on real-life use of numbers → introduction of the concept → examples from daily life → guided practice → activity and recap.	Students will understand how numbers convey information in real-life situations.	Discussion, real-life examples, observation, and activity-based learning.	Engage with daily-life contexts → explore meaning of numbers → explain interpretation → apply understanding through activities → assess through questioning.	Students will be able to interpret numbers used in daily life and explain the information they convey.	Textbook (Ganit Prakash), real-life pictures, charts, blackboard/smart board.	Class Activity: explain what information each number gives.
		Supercells	Introduction to the idea of grouping → explanation of supercells → examples from the textbook → guided practice → activity and recap.	Students will understand the concept of supercells and how they help in organizing and representing numbers efficiently.	Explanation, demonstration, questioning, and activity-based learning.	Engage with grouping ideas → explore formation of supercells → explain their use → apply concept through examples → assess understanding.	Students will be able to form supercells and use them to represent numbers clearly and systematically.	Textbook (Ganit Prakash), chart paper, number cards, blackboard/smart board.	Students create supercells using number cards or draw supercell representations for given numbers.

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		Patterns of numbers on number line	Recall of number line concept → demonstration of number patterns → observation and discussion → guided practice → activity and recap.	Students will identify and understand number patterns using a number line.	Demonstration, questioning, discussion, and activity-based learning.	Engage with number line → explore jumps and spacing → explain pattern rules → apply learning → assess through oral questions.	Students will be able to represent, identify, and extend number patterns on a number line.	Number line chart, textbook (Ganit Prakash), number cards, blackboard/smart board.	Students show number patterns by making equal jumps on a number line and explain the rule.
		Pretty Palindromic patterns	Recall of palindrome concept → introduction to palindromic patterns → observation of examples → guided practice → activity and recap.	Students will understand and identify palindromic patterns in numbers and shapes.	Discussion, demonstration, pattern observation, and activity-based learning.	Pedagogical Process: explain formation rules → apply learning through activities → assess understanding.	Learning Outcomes: create, and explain palindromic patterns confidently.	Textbook (Ganit Prakash), number cards, pattern charts, blackboard/smart board.	Students create their own palindromic number or shape patterns and explain the rule.
		The magic number of Kaprekar	Introduction to Kaprekar's idea → demonstration of the steps → student practice → activity → recap and reflection.	Students will understand the Kaprekar process and discover the magic number through repeated steps.	Demonstration, guided practice, discussion, and activity-based learning.	Engage with a number puzzle → explore rearranging digits → explain the Kaprekar steps → apply through examples → assess learning.	Students will be able to perform the Kaprekar operation and identify the magic number correctly.	Teaching Aids: Prakash), number cards, chart showing steps, blackboard/smart board.	Students apply the Kaprekar process to different numbers and verify the magic number.
		Clock and Calender numbers	Discussion on daily use of clock and calendar → introduction of number patterns → examples and explanation → guided practice → activity and recap.	Students will understand how numbers are used in clocks and calendars to show time and dates.	Discussion, demonstration, real-life examples, and activity-based learning.	Engage with daily-life context → explore clock and calendar layouts → explain number patterns → apply learning through activities → assess understanding.	Students will be able to read, interpret, and identify number patterns in clocks and calendars.	Clock model, calendar chart, textbook (Ganit Prakash), blackboard/smart board.	Students identify number patterns on a clock or calendar and explain their observations.

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5	Prime Time	Common multiples and common factors	Recall of multiples and factors → introduction to common multiples and factors → demonstration with examples → guided practice → activity and recap.	Students will identify common multiples and factors of given numbers.	Discussion, demonstration, problem-solving, and activity-based learning.	Engage with familiar numbers → explore lists of multiples and factors → explain methods to find common ones → apply learning through examples → assess understanding.	Students will be able to find common multiples, common factors, and explain their significance.	Textbook (Ganit Prakash), number cards, chart paper, blackboard/smart board.	Students list multiples and factors of given numbers and identify common ones through pair or group work.
		Prime and composite numbers	Recall of factors → introduction to prime and composite numbers → demonstration with examples → guided practice → activity and recap.	Students will identify and classify numbers as prime or composite.	Discussion, demonstration, questioning, and activity-based learning.	Engage with familiar numbers → explore definitions and examples → explain rules for classification → apply learning through practice → assess understanding.	Students will be able to distinguish between prime and composite numbers and list them within a given range.	Textbook (Ganit Prakash), number cards, charts, blackboard/smart board.	Students identify prime and composite numbers from 1–100 and create a visual chart or table.
		Co-prime numbers	Recall of factors and prime numbers → introduction to co-prime numbers → demonstration with examples → guided practice → activity and recap.	Students will understand the concept of co-prime numbers and identify pairs of co-primes.	Discussion, demonstration, problem-solving, and activity-based learning.	Engage with familiar numbers → explore definition of co-primes → explain using examples → apply learning through practice → assess understanding.	Students will be able to identify co-prime numbers and explain why a pair of numbers is co-prime.	number cards, chart paper, blackboard/smart board.	Students list numbers from 1–50 and identify pairs of co-prime numbers in small groups.
		Prime Factorisation	Recall of prime numbers → introduction to factorisation → demonstration of prime factorisation using trees/division method → guided practice → activity and recap.	Students will learn to express numbers as a product of prime factors.	Demonstration, step-by-step explanation, problem-solving, and activity-based learning.	Engage with familiar numbers → explain methods of prime factorisation → show examples → apply learning through exercises → assess understanding.	Students will be able to find prime factors of numbers using factor trees or division method accurately.	chart paper, number cards, blackboard/smart board.	Students create factor trees or use division method to find prime factors of given numbers in pairs or small groups.

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7	<b>Fractions</b>	Fractional Units and Equal shares	Set induction using daily-life sharing examples → explanation of fractional units → demonstration with objects → guided practice → activity → recap	Students will understand fractional units and identify equal shares of a whole.	Discussion, demonstration, hands-on activity	Learners will work individually and in groups to explore equal sharing using concrete materials.	Learners will correctly identify and represent fractions as equal parts of a whole.	Paper strips, fraction circles, charts, real-life objects	Activity: Students divide paper shapes into equal parts and label the fractions.
		Measuring using Fractional units	Introduction through measuring objects → demonstration using rulers and strips → guided practice → activity → recap	Students will learn to measure using fractional units.	Demonstration, discussion, practical activity	Learners will measure objects individually and in pairs using fractional units.	Learners will accurately measure and record lengths using fractions.	Rulers, paper strips, measuring cups, charts	Activity: Measure classroom objects and record measurements using fractional units.
		Mixed Fractions	Set induction using visual examples → explanation of mixed fractions → demonstration → guided practice → recap	Students will understand and represent mixed fractions.	Explanation, visual demonstration	Learners will correctly identify and represent mixed fractions.		Fraction strips, charts	Activity: Represent given mixed fractions using fraction strips or drawings.
		Equivalent Fractions	Introduction through shaded diagrams → demonstration → guided practice → activity → recap	Students will understand and identify equivalent fractions.	Discussion, demonstration	Learners will explore equivalent fractions in pairs through visual models.	Learners will correctly identify and generate equivalent fractions.	Fraction circles, charts, cards	Activity: Matching equivalent fraction cards using visual models.
		Simplest form of a Fraction	Set induction with simple examples → explanation → step-by-step demonstration → guided practice → recap	Students will learn to simplify fractions to their lowest form.	Explanation, guided practice	Learners will simplify fractions individually and discuss steps.	Learners will correctly reduce fractions to simplest form.	Charts, worksheets	Activity: Simplify given fractions and explain the steps followed.

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8	<b>Playing with Constructions</b>	Art work	<ul style="list-style-type: none"> <li>• Use of squares and rectangles in art</li> <li>• Patterns and designs</li> <li>• Creativity with geometric shapes</li> </ul>	Students will: <ul style="list-style-type: none"> <li>• Identify squares and rectangles in artworks</li> <li>• Create designs using geometric shapes</li> <li>• Appreciate the link between art and geometry</li> </ul>	Observation, discussion, demonstration, creative activity	1. Set Induction: Observe patterns in classroom objects 2. Introduction: Show artworks using shapes 3. Explanation: Discuss use of squares and rectangles 4. Guided Practice: Identify shapes in designs 5. Activity: Create geometric artwork 6. Recap: Reflect on learning	Learners will be able to: <ul style="list-style-type: none"> <li>• Use geometric shapes creatively</li> <li>• Recognize geometry in art</li> </ul>	Colour paper, crayons, rulers, charts/PPT	Activity: Students create a collage or design using only squares and rectangles
		Squares and Rectangles	<ul style="list-style-type: none"> <li>• Sides and angles</li> <li>• Similarities and differences</li> </ul>	Students will: <ul style="list-style-type: none"> <li>• Identify squares and rectangles</li> <li>• Describe their properties</li> <li>• Compare both shapes</li> </ul>	Discussion, demonstration, observation	1. Set Induction: Recall basic shapes 2. Introduction: Show square and rectangle models 3. Explanation: Discuss properties 4. Guided Practice: Identify shapes 5. Activity: Sorting shapes 6. Recap: Summarize properties	Learners will be able to: <ul style="list-style-type: none"> <li>• Identify and compare squares and rectangles</li> </ul>	Shape cut-outs, charts, board drawings	Activity: Students sort objects into squares and rectangles
		Constructing squares and Rectangles	<ul style="list-style-type: none"> <li>• Use of ruler and set square</li> <li>• Given measurements</li> </ul>	Students will: <ul style="list-style-type: none"> <li>• Construct squares and rectangles accurately</li> <li>• Use measuring tools correctly</li> </ul>	Demonstration, guided practice, hands-on activity	1. Set Induction: Recall properties 2. Introduction: Introduce construction tools 3. Explanation: Step-by-step construction 4. Guided Practice: Teacher-guided drawing 5. Activity: Individual construction 6. Recap: Review steps	Learners will be able to: <ul style="list-style-type: none"> <li>• Construct squares and rectangles correctly</li> </ul>	Skill-based learning	Activity: Students construct a square and a rectangle of given dimensions
		An exploration of Rectangles	<ul style="list-style-type: none"> <li>• Opposite sides equal</li> <li>• Right angles</li> <li>• Different rectangles</li> </ul>	Students will: <ul style="list-style-type: none"> <li>• Explore properties of rectangles</li> <li>• Identify rectangles of different sizes</li> </ul>	Exploration, discussion, activity-based learning	1. Set Induction: Recall rectangle properties 2. Introduction: Present different rectangles 3. Exploration: Measure sides and angles 4. Discussion: Share observations 5. Activity: Create rectangles 6. Recap: Conclude findings	Learners will be able to: <ul style="list-style-type: none"> <li>• Explain properties of rectangles through exploration</li> </ul>	Paper strips, rulers, worksheets	Activity: Students measure and compare different rectangles

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		Exploring Diagonals of Rectangles and Squares	<ul style="list-style-type: none"> <li>Length of diagonals</li> <li>Intersection of diagonals</li> </ul>	Students will: <ul style="list-style-type: none"> <li>Identify diagonals</li> <li>Compare diagonals of squares and rectangles</li> <li>Observe their properties</li> </ul>	Demonstration, hands-on exploration	1. Set Induction: Recall shapes 2. Introduction: Draw diagonals 3. Exploration: Measure diagonals 4. Discussion: Observe results 5. Activity: Paper folding or drawing 6. Recap: Summarize observations	Learners will be able to: <ul style="list-style-type: none"> <li>Describe properties of diagonals</li> </ul>	Ruler, paper cut-outs, charts	Activity: Students draw and compare diagonals in squares and rectangles
		Points equidistant from two given points	<ul style="list-style-type: none"> <li>Meaning of equidistant</li> <li>Perpendicular bisector</li> </ul>	Students will: <ul style="list-style-type: none"> <li>Understand equidistance</li> <li>Identify points equidistant from two points</li> </ul>	Demonstration, guided practice, exploration	1. Set Induction: Recall distance between points 2. Introduction: Explain equidistance 3. Explanation: Construct perpendicular bisector 4. Guided Practice: Identify points 5. Activity: Draw and verify 6. Recap: Key learning	Learners will be able to: <ul style="list-style-type: none"> <li>Identify and construct equidistant points</li> </ul>	Compass, ruler, graph paper	Activity: Students draw points equidistant from two given points
9	<b>Symmetry</b>	Symmetry	<ul style="list-style-type: none"> <li>Meaning of line of symmetry</li> <li>Vertical and horizontal lines of symmetry</li> <li>Number of lines of symmetry in shapes</li> </ul>	Students will: <ul style="list-style-type: none"> <li>Understand the concept of symmetry</li> <li>Identify symmetrical objects around them</li> <li>Differentiate between symmetrical and non-symmetrical figures</li> </ul>	Discussion, observation, demonstration, and hands-on activities	1. Set Induction: Recall shapes learned earlier 2. Introduction: Show real-life examples (butterfly, leaf, mirror image) 3. Explanation: Introduce symmetry using folding and mirror method 4. Guided Practice: Identify symmetry in shapes 5. Activity: Paper folding and colouring 6. Recap: Discuss key points		Paper cut-outs, mirror strips, charts/PPT showing symmetrical figures	Activity: Students fold paper shapes to check whether both halves match

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10	<b>The Other Side of Zero</b>	Bela's Building of fun	Understanding Integers through a Story Context "• Floors above and below ground • Positive and negative integers • Zero as reference point"	Students will: • Understand integers using real-life context • Identify positive, negative integers and zero • Relate floors to integer values	Storytelling, discussion, demonstration, visual representation	Learner-centred learning through guided questioning and interaction 1. Set Induction: Recall numbers and counting 2. Introduction: Narrate Bela's building story 3. Explanation: Explain floors using integers 4. Guided Practice: Identify floor numbers 5. Activity: Floor movement problems 6. Recap: Summarize concepts	Learners will be able to: • Represent real-life situations using integers	Building diagram, number cards, PPT/chart	Activity: Students mark different floors of Bela's building using integers
		Subtraction to find which button to press	• Meaning of subtraction • Movement up and down • Integer subtraction	Students will: • Use subtraction to find correct movement • Solve integer subtraction problems • Interpret subtraction in context	Demonstration, guided practice, discussion	1. Set Induction: Recall Bela's building 2. Introduction: Introduce button-press idea 3. Explanation: Demonstrate subtraction using floors 4. Guided Practice: Solve sample problems 5. Activity: Button-press challenges 6. Recap: Key takeaways	Learners will be able to: • Subtract integers correctly in real-life situations	Floor chart, number line, flash cards	Activity: Students decide which button to press to reach a given floor
		Back to number line	• Position of zero • Positive and negative numbers • Direction on number line	Students will: • Represent integers on a number line • Understand movement left and right • Compare integers	Demonstration, visual learning, guided practice	1. Set Induction: Recall integer concepts 2. Introduction: Introduce number line 3. Explanation: Plot integers 4. Guided Practice: Mark given integers 5. Activity: Human number line 6. Recap: Review	Learners will be able to: • Locate and represent integers accurately	Number line chart, floor tape line, cards	Activity: Students act as numbers on a large number line

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