GLOW SHINE ACADEMY SECONDARY SCHOOL

TERMINAL PLAN

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| **Term** | **S.N** | **Topic** | **Objectives** | **Model questions** | **Teaching Materials** | **Project Work** |
|  | **1**. | **GEOMETRY(Lines and angles)**   * Measurement and construction of angles * Comparison of angles | **STUDENTS WILL BE ABLE TO:**   * Measure and construct the angles by using protractor. * Compare two angles by examining their measures and identify greater, smaller and equal angles. | * **Look at the figure alongside and answer the following questions.**   P   1. Name the angle. 2. Measure the angle   Using a protractor.      R  Q | PROTRACTOR,  RULER | Take a chart paper and collect small sticks or matchstick to form the different size angles. Then paste it on the paper to present in the classroom. |
| **2**. | **ARITHMETIC(Number sense)**   * Numbers up to 9 digits in national system * Numbers in international system * Rounding off the numbers * Prime and composite numbers | **STUDENTS WILL BE ABLE TO:**   * Represent the numbers according to the national and international system * Rounding off the the numbers made up of 5 digits to the nearest hundred and thousands. * Differentiate prime and composite numbers from 1 to 100. | * **The price of a scooter is Rs 286947.**  1. Rewrite the price of a scooter according to national system using comma(,). 2. Write the number 286947 into words. 3. Round off the number 286947 to the nearest i )tens and ii)thousands | FLASH CARD WITH HINDU ARABIC NUMBER DIGITS | **List the roll numbers and name of your class friends.**   1. write the prime roll numbers with their name. 2. write the prime roll numbers with their name. |
|  | **3.** | **MENSURATION(Measurement) : TIME**   * Time in 12 hours and 24 hours system * Multiplication and division of time * Word problems on multiplication and division of time | **STUDENTS WILL BE ABLE TO:**   * Tell time in 12 hours and 24 hours system. * Multiply and division of units of time.   Year and month  Week and day  Day and hour  Hour and minute |  | WALL CLOCK,  CALENDER, |  |
| **4.**. | **ALGEBRA(Algebraic expressions)**   * Algebraic expression * Like and unlike terms * Addition and subtraction of like term. | **STUDENTS WILL BE ABLE TO:**   * Give the introduction of term and algebraic expression. * Identify the like and unlike terms. * Add and subtract the like terms. | * **Observe the following algebraic expression.**   **2x + 3y**   1. How many terms are there in the expression? 2. What is the coefficient of 2? 3. Are 2x and 3y the like terms? Give reason. | SIMILAR AND DIS-SIMILAR REAL OBJECTS FOUND IN OUR DAILY LIFE |  |
|  | **5.** | **STATISTICS(Bill and budget)**   * Reading bills * Making bills | **STUDENTS WILL BE ABLE TO:**   * Read the bills. * Prepare the bill according to the price list |  | COLLECTION OF BILLS | Collect the bills in your house and check all the bills If there are any mistakes, tell your parents about the mistakes. Also make sample bills to present in the classroom. |
|  | **1.** | **GEOMETRY(Lines and angles)**   * Angles   of triangle and quadrilateral | **STUDENTS WILL BE ABLE TO:**   * Find the values of unknown angles in triangle and quadrilateral | * **Look at the figure alongside and answer the following questions.**  1. Name the triangle and its vertices. 2. Name the sides   **X**  and angles.   1. Measure the angles   X and Y.  **Z**  Y | PROTRACTOR,  RULER | Collect triangular and quadrilateral shaped objects. Measure their interior angles using protractor and present in the class. |
|  | **2**. | **ARITHMETIC(Fraction)**   * Review * Addition and subtraction of like fractions * Addition of like mixed numbers * Word problems on addition and subtraction of fractions * Addition and subtraction of fractions | **STUDENTS WILL BE ABLE TO:**   * Define the like fractions and find the sum/difference of like fractions. * Add the like mixed numbers and solve the word problems related to fraction. | * **Deepa painted of the wall space in her room. Her friend Kripa painted part of the wall space.**  1. How much did they paint together? 2. How much of the room left unpainted? 3. Show the unpainted area in a diagram. | CHART PAPER,  APPLE,  MAGNETIC BOARD |  |
| **3.** | **MENSURATION(Measurement) : DISTANCE**   * Multiplication and division of distance * Word problems on multiplication of distance | **STUDENTS WILL BE ABLE TO:**   * Multiply and divide the units of millimetre,centimetre,metre and kilometre. | * **The length of a copy is 22 cm 5 mm.**  1. Find the length of a copy in mm. 2. Find the length of such 4 copies. 3. Find the length of such 7 copies. | MEASURING TAPE UP TO 100 m,  RULER | Guess and measure the length of things in your bedroom. And check whether your estimation correct or not? |
| **5**. | **STATISTICS(Bill and budget)**   * Budget | **STUDENTS WILL BE ABLE TO:**   * Read and answer the questions related to the budget. * Prepare a budget of family and household things. |  |  | Find the total cost for your weekly expenditure and prepare a budget you need to pay in a week. |
|  | **1.** | **GEOMETRY(Lines and angles)**   * Right angle,obtuse angle and acute angle * Perpendicular and parallel lines | **STUDENTS WILL BE ABLE TO:**   * Differentiate and define right,obtuse and acute angle. * Draw perpendicular and parallel lines in square grid. | * **Define the following.**  1. Right angle 2. Obtuse angle 3. Acute angle | SET SQUARE,  RECTAGULAR AND SQUARED SHAPES | Observe the things which are in parallel and perpendicular shapes in your surroundings. And list their name. |
| **2.** | **ARITHMETIC(Decimal)**   * Conversion of decimal and fraction to each other * Addition and subtraction of decimal numbers * Place value table of decimal number * Word problems on addition and subtraction of decimals * Simplify decimals involving addition and subtraction | **STUDENTS WILL BE ABLE TO:**   * Convert decimal and fraction to each other. * Add and subtract the decimal numbers including word problems. * Simplify decimals with addition and subtraction signs. | * **Father bought a T-shirt for Rs 454.51, a tie for Rs 248.26 and a cap for Rs 150.30.**  1. What is the sum of prices of a T-shirt and a tie? 2. What is the sum of prices of a T-shirt, a tie and a cap? 3. If father gives Rs 1000 to the shopkeeper, what amount of money will he get return back? | SQUARE GRID PAPER, |  |
| **3**. | **MENSURATION(Measurement) CAPACITY,PERIMETER,AREA AND VOLUME**   * Multiplication and division of litre and millilitre * Perimeter and area of rectangle and square * Volume of cube and cuboid | **STUDENTS WILL BE ABLE TO:**   * Multiply and divide units of capacity. * Find the perimeter and area of rectangle and square by using formula. * Find the volume of cube and cuboid by using formula including some word problems. | * **In the figure alongside, the length of a rectangle is 32 cm and width is 24 cm.**   24 cm    32 cm cm   1. Find the perimeter of the rectangle. 2. Find the area of the rectangle. | MEASURING TAPE,  RULER,BLOCKS, SQUARE GRID PAPER | Measure the length and width of your maths book then find its perimeter. |
| **4.** | **ALGEBRA(Algebraic expressions)**   * Solving equations | **STUDENTS WILL BE ABLE TO:**   * Solve the equations including plus and minus signs. | * **Solve the following equations.**  1. x-4=15 2. 2m + 7 = 19 3. 6y - 8 = 3y + 16 | BEAM BALANCE |  |
| **5**. | **STATISTICS**   * Tabulation of data | **STUDENTS WILL BE ABLE TO:**   * Present the given data in tabular form. | * **Tabulate the following data:**   18, 15, 15, 19, 22, 18, 25, 22, 18, 19, 15, 18, 25, 18, 19, 23 |  |  |
| **FINAL** | **1.** | **GEOMETRY**   * Solid objects | **STUDENTS WILL BE ABLE TO:**   * Identify the number of faces,vertices and edges of the solid shapes | * **Look at the figure alongside and answer the following questions.**  1. Write the name of the shape. 2. Write the number of edges and faces . | RUBIK’S CUBE,  LUDO DIE,  CARTOON BOX,  WOODEN SOLID SHAPES | Collect some real solid shapes and write their name by using a sign pen. |
| **FINAL** | **2.** | **ARITHMETIC(Percentage)**   * Understanding percent * Percent to fraction and fraction to percent * Percent to decimal and decimal to percent * Percent of given number and word problems on percentage * Word problems on percentage | **STUDENTS WILL BE ABLE TO:**   * Define percent in simple way. * Convert the fraction and percent to each other. * Convert the decimal and percent to each other. * Solve the word problems on percentage. | * **In a class of 40 students, 60% are boys.**  1. Find the number of boys. 2. Find the number of girls. |  |  |
| **FINAL** | **3.** | **MENSURATION(Measurement) WEIGHT**   * Multiplication and division of gram and kilogram * Multiplication and division of kilogram and quintal * Relation between kilogram and quintal | **STUDENTS WILL BE ABLE TO:**   * Multiply and divide the units of weight. * Solve the word problems related on weight. | * **Find the following.**  1. Multiply: 4 kg 200 g by 3. 2. Divide : 18 quintal and 25 kg by 5. | DIGITAL WEIGHT MEASURING TOOLS | Measure your weight in kg and compare it with your friend’s weight.  Then identify the heaviest and the lightest weight friend in the classroom. |
| **FINAL** | **4.** | **ALGEBRA(Algebraic expressions)**   * Solving multiplication and division equations * Word problems on solving equations | **STUDENTS WILL BE ABLE TO:**   * Solve the equations including multiplication and division signs. * Write the word problems in the form of equation and solve it. | * **The sum of the three counting numbers is 24.**  1. If the first number is x , then what is the value of second number in terms of x? 2. If the first number is x , then what is the value of third number in terms of x? 3. Make an equation to represent given statement. 4. Solve for x. |  |  |
| **FINAL** | **5.** | **STATISTICS**   * Simple bar diagram | **STUDENTS WILL BE ABLE TO:**   * Draw a simple bar diagram by using the given information. | * **Represent the following data in a bar graph.**  |  |  |  |  |  | | --- | --- | --- | --- | --- | | Class | I | II | III | IV | | No.Of Student | 30 | 25 | 15 | 30 | | SQUARE GRID  CHART | Collect a data of your family member’s favourite colour. Then present it in a bar graph. |

Specific grid for 2082

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| **S.N.** | **Areas** | **Total working hour** | **Knowledge** | | **Understanding** | | **Application** | | **Higher ability** | | **Total number of items** | **Total number of questions** | **Total Marks** |
| **Number of items** | **Marks** | **Number of items** | **Marks** | **Number of items** | **Marks** | **Number of items** | **Marks** |
| 1. | Geometry | 25 | 1 | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 6 | 2 | 8 |
| 2. | Arithmetic | 60 | 3 | 3 | 3 | 4 | 4 | 7 | 2 | 4 | 12 | 4 | 18 |
| 3. | Mensuration | 35 | 1 | 1 | 2 | 2 | 3 | 5 | 1 | 2 | 7 | 2 | 10 |
| 4. | Statistics | 15 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 5 | 2 | 6 |
| 5. | Algebra | 25 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 7 | 2 | 8 |
|  |  | **160** | **8** | **8** | **10** | **12** | **13** | **20** | **6** | **10** | **37** | **12** | **50** |