**BUDHA DAL PUBLIC SCHOOL, SAMANA**

**LESSON PLAN**

**CLASS - VI**

**SUBJECT - MATHS**

**Name of Teacher: Ms. Gurpreet Kaur**

|  |  |
| --- | --- |
| General Aids | A well equipped classroom, pointer, Green board, chalk, duster etc. |
| General Aims | 1. To develop scientific attiude among students .  2. To make the students familiar with the use of maths in daily  life.  3. To develop reasoning and thinking power of students. |
| Specific aims | 1. After doing this chapter students will be able to understand the concept of intergers.  2. Students will be able to know about different types of  Integers' i.e positive and negative Intergers.  3. Students will be able to learn about multiflication and division of integers. |
| P.K. Testing | It is assured that students have knowledge about the natural numbers and whole numbers they will be asked the following questions.  1. What are natural numbers?  2. What are whole numbers?  3. Name the positive and negative numbers on a number line?  4. What we call these positive and negative numbers?  **Unsatisfactory response:-**  After getting unsaticfactory response Teacher will announce the topic and explain about positive and negative Integers. |
| Content | Intraduction of Integers  Representaion of Intergers on a number line.  Properties of Addition of Intergers  Properties of subtractoion of Intergers  Multiplication of Integers  Division of Integers |
| Activity with art Integeration | Activity is based on addition and subtraction of Integers |
| Home work | Ex. 1.1 to 1.4 all the questions will be duscuesed in the class. Similar questions will be given as home workl. Some worksheet from workbook also given to students for practice Assignment also given. |
| Subject Enrichment | Class tests will be conducted from this chapter periodic test-I will be conducted from this chapter. |
|  |  |
| Topic | Simple Equation |
| General Aids | A well equipped classroom, chalk, zoom app, duster, green board |
| General Aims | 1. To develop reasoning and thinking power of students  2. To create the interest among the students.  3. To make them familiar with the use of maths in their daily life.  4. To develop the scientific attitude among the students. |
| Specific Aims | 1. Students will be able to use the concept in their daily life.  2. Students will be able to know about the variables and constant in an equation  3. Students will be able to learn about finding the solutions of an equations and to check whether the given value is a solution of an equations ot not  4. Students will be able to understand the application of simple equation to practical situations' |
| P.K. Testing | 1. Indentfy the variables and constants x+3=5  2. Write in equation form  A number is subtracted froms gives 10  3. Write in statement form P+4=5  4. Put x=2 in equation x+4  5. If x=2 in equation 3x+6=12 check whether x=2 is a solution of equation |
| Content | Introduction of simple equations  Setting of an equation  Solving an equation  From solution to equation  Application of simple equation to pratcal situations |
| Activity with art Integration | After discussing this activity some other activities whose lines are mentioned below also discussed with students |
| Home work | Home work will be given from the ch-4 from NCERT Book. Some worksheet from workbook also given to students for practice.  Assignment also given to do in the notebook |
| Subject enrichment | Periodic test and class test will be conducted from this chapter |
|  |  |
| Topic | Fraction and Decimals |
| General Aids | A well equipped class room, green board, chalk, duster, pointer etc. |
| General Aims | 1. To develop the scientific attitude among the students.  2. To creat the intrest among students.  3. To develop the reasoning and thinking power among the students. |
| Specific Aims | Students will be able to know about various types of fractions like proper imrpper mixed fractions  Students will be able to multiply the different fractions and to convert into decimal farm also.  Students will know how to convert into lowest form. |
| P.K testing | Is 5/7 a proper fraction of improper fraction?  2. Add +  3. Which is greater 0.03 or 0.3 ?  4. Multiply × = \_\_\_\_\_\_\_  5. Convert into decimal ,  6. Convert into decimal.  After getting no response now we will repose to the class about the topic. |
| Content | Comparsion of decimals  Representation of decimals on number line. |
| Activty with Art integration | Number libe  Ordering fractions and decimals |
| Home work | Exercise will be done in the class examples will be done. Home work form Ex 2.1 to 2.7 will be given in class worlsheets from workbook & assignment given |
| Subject Enrichment | Periodic test will be conducted in the class from various exercise of ch-2 |
|  |  |
| Topic | Data Handling |
| General Aids | A well equipped classroom, chalk board, pointer duster, green board etc. |
| General aims | 1. To develop the reasoning and thinking power of the students  2. To make the students familiar with the use of maths in daily life.  3. To develop the creative power of the students |
| Specific aims | 1. Students will be able to find the arithmetic means, Range of various gicen data  2. Students will learn how to find mode, median of large data.  3. Students will be able to learn about the use of bar graph with a different purpose.  4. Students will be able to understand the concept of chance and probabitlity |
| P.K Testing | Find the mean of first five natural numbers  2. The marks obtained (out ot 100 )in maths are 85, 90, 75  Q.1 Hightest and lowest marks obtained by the students?  Q.2 Find the mean of the marks?  Q.3 Find the Range? |
| Content | Introduction  Mean  Range  Mode  Median  Bar Graphs  Double Bar Graph  Chance and Probability |
| Activity with art Intgration | Students will make a table of their own marks of term-I and term-II of their previous class.  They will find the percentage of marks obtained in different subjects.  Then they will make double group by using different colour starips for term-I and term-II  Through this students will be able to know the use of concept in their daily life.  After discussing this activity some other activites whose links are mentioned below also discussed with students |
| Home work | Ex-3.1 to 3.4 all the questions will be discussed in the some question will be given as home work for the clarity of the concept worksheets from workbook and assignment given for the practice |
| Subject Enrichment | Class tests will be discussed and conducted for the clarity of the concept. |
|  |  |
| Topic | Lines and angles |
| General Aids | A well equipped classroom , pointer, duster, chalkboard Green board etc. |
| General Aims | 1. Tomake the students familiar with the use of maths in daily life.  2. To develop the creative power among the students.  3.To create the interest of the students in Geometery.  4. To develop the skill of observation and drawing. |
| Specific Aims | 1. To provide knowledge to the students about 'lines and Angles'  2. Students will be able to learn about representing and naming of an angle  3. Students will be able to know about various types of Angles and their properties.  4. Students will be able to understand about supplementary and complementary angles and the various properties if angles.  5. Students will be able to understand the concept of tranversal lines and angles by it. |
| P.K Testing | 1. Which line is line segment in below figures.  2. Which angle is obtuse right acute straight angle.  3. What is complementary angle?  After getting unsatisfactory response Teacher will explain the concept. |
| Content | Introduction  Types of Angles  Related Angles  Complementary Angles  Supplemetary Angles  Aacent Angles  Linear Pair  Intersecting lines  Transversat lines |
| Activity with Art Integration | Students will perform the activity to verify that if two lines intersect at a pont then each pair of vertically opposite angles are equal by paper cutting and pating |
| Home work | Ex 5.1 to 5.2 all the some will be dicussed and done in the class some question similar to NCERT questions will be given as home work from workbook and Assignment also |
| Subject Enrichment | Class test will be conducted from this chapter. |
|  |  |
| Topic | The triangle and its properties |
| General Aids | A well equipped classroom pointer, Duster, chalk Green board, Duster etc. |
| General Aims | 1. To develop the skill of observation and drawing.  2. To develop the interest of students  3. to make them familiar with the concept |
| Specific Aims | 1. After doing this chapter students will be able to use the concept of (Triangle and its various properties in their daily life)  2. Students will be able to understand the classification of triangles on the basis of sides and angles.  3. Students will be able to know about the medions and altitude of a triangle  4. Students will be able to understand the concept of exterior and interior angle property Angle sun property of triangle  5. Students will be able to use the concept of pytha in their daily life |
| P.KTesting | 1. Name the angles of a given triangle?  2. Name the vertices of a triangle?  3. What is an iscoeles triangle?  4. Can you find IIIrd angle in a triangle?  After getting unsatisfactory response teacher will explain about the properties of \_\_\_\_\_ |
| Content | Introduction  Classification of triangle  Medions and Altitude of triangle  Exterior and interial Angles of a  Angle sum property of truable  Sum of the lengths of two sides of  Right Angled and pythagorus theorem |
| Activity with art Integration | Activity based on angle propery of triangle will be done in the class as the sum of three angles of triangle is 180o  after discussing this activity some other acticities whose link are mentioned below also disaussed with students |
| Home work | Ex 6.1 to 6.5, all the sums will be discussed and done in the class some similar questions will be given as home work far the clarity of the concept worksheet from workbook and assignment also given as homework |
| Subject Enrichment | Class tests will be conducted for the clarity of the concept |
|  |  |
| Topic | Confruence of triangles |
| General Aids | A well equipped classroom duster, chalk |
| General Aims | 1. To understand the concept of Geometry  2.To develop the interest of students in Maths.  3. To make them familiar with the use of maths in their daily life.  4. To develop the skill of observation and drawing. |
| Specific Aims | Students will be able to understand the concept of congruence of triangles  Students will be able to learn about different congruence conditions line congruence SAS ASA congruence etc.  Students will be able to learn about how to make congruence by comparing the two triangles. |
| P.K testing | 1. two line segments are congruent if both have same length  2. If AB=4.5 cm, find CD. Is it congruent or not.  Q. If two angles have equal mease then these angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_  After getting ansatisfactory respose teacher will announce the topic congruence of triangles |
| Content | Congruence of line segments  Line segments  Plane Figure  Angles and Triangles  Side -Side-Side congruence  Side-Angle0Side congruence  Angle-side-Angle congruence  right -Hand-Side Congruence |
| Activity with Art Integration | students will perform the activity to establish congruency of triangle by making paper models  Students will check the triangles by overlapping them and notedown the equal sides and angles  After discussing this activity some other activities whose links are mentioned below also discussed with students |
| Home work | Ex 7.1 and 7.2 all the question will be discussed and done in the class some similar question will be given as homework Assignement and worksheets from workbook given |
| Subject Enrichment | Class tests will be conducted from this chapter |
|  |  |
| Topic | Exponents and powers |
| General Aids | A well equipped classroom, chalk, Duster, Green board, Technical , links from youtube and Diksha etc. |
| General Aims | 1. To understand the concept of Geometry  2.To develop the interest of students in Maths.  3. To make them familiar with the use of maths in their daily life.  4. To develop the skill of observation and drawing. |
| Specific Aims | 1. After doing this chapter students will be able to know about the concept  2. Students will be able to learn about various laws of exponents  3. Students will be understand about multiplying and dividing the powers with the same eponents  4. They will be able to express large numbers in the standard form. |
| P.K testing | 1. What is the power of S3?  2. Find the value of 22?  3. Which is odd power in25,24?  4. Which is even power in 32, 35? |
| Unsatisfactory response Content | Exponents Laws of exponents  Decimal number system  Expression large no. in standard form  Miscellaneous ecample using laws |
| Activity with Art Integration | Students will perform the activity to study the relation between the no of times a paper is folded and no of squares rectangle formed After perfoming the activity they will be able to learn about the exponential form of the number.  After discussing this activity some other activities whose lines are mentioned below also discussed with students |
| Home work | Ex. 13.1 to 13.4 all the questions will be discussed in the class some similar questions will be given as homework. Assignment and worksheets given. |
| Subject Enrichment | Class test will be conducted for the clarity of the concept. |