

Chapter	No. of Teaching classes	Concept & skills	Learning Outcome	Instructional tools & Reference's
Rational Numbers	14 Introduction of numbers (1) Recap exercise(1) Properties of rational no's 1. properties of addition 2. Properties of subtraction Ex 1.1 (3) 1 .Properties of multiplication 2. Properties of division Ex 1.2 (3) 1. Representing of natural no's on no. line 2. Order relation in rational numbers 3. Comparison of rational numbers Ex 1.3 (4) 1. Word problem Ex 1.4 (2)	1.sense of Numbers 2.Properties of rational numbers 3.Representation of rational numbers on the number line 4.To find rational numbers between two rational numbers 5.standard form of rational number 6.Four basic operations on rational number	1.they will perform four basic operations on rational number (+,-,÷,×) 2.The student will extend the knowledge of properties of integers to rational numbers 3.they will appreciate the fact that the mean of any two rational numbers lies between those rational numbers 4.they will also learn the method of representing on a number line 5.they will be able to find which propertion are true for different operations of rational number 6.they will understand the addictive identity additive inverse, multiplicative identity and multiple inverse of rational numbers	Text book Number line
Exponents & powers	6 Introduction and laws of exponents (1) Recap exercise (1) Negative exponents (1) Laws of exponents with internal power (1)	1.Exponential form 2.negative exponents 3.laws of exponents 4.to convert negative exponents into postive	1.students will be able to write very large number using postive exponents and very small numbers using negative exponents early	1.text book 2.lab activity

Scientific notation

Ex 2.1 (2)

exponents

5.expanded form of number  
using exponents

6.Standard form

2.They will be able to apply the  
laws of exponents for solving  
exponential expression

3.they will be able to express  
rational number in exponential  
form

4.They will be able to write any  
number in standard form

<b>Peadagogy</b>	<b>Activity/Assigement/ Project</b>	<b>Assessment</b>	<b>Formative Assessment/ Submative Assessment</b>
<p>Group discusion with the students</p> <p>1.what are rational numbers</p> <p>2.what are various properties of rational numbers</p> <p>3.plotting rational numbers on number line</p> <p>4.difference between fraction and rational numbers</p> <p>5.what are postive &amp; negative rational numbers</p>	work sheet based on the entire chapter	Short classes test based on individual text exercise	<p>1.Oral test</p> <p>2.Questions based on concepts (Definations, Properties and Rules)</p> <p>3.M C Q's based on (reasoning , application and problem solving</p> <p>4.P/p test</p> <p style="padding-left: 20px;">2 Q's carring 2 marks</p> <p style="padding-left: 20px;">4 Q;s carring 4 marks</p> <p>5.Lab activity (based on chapter)</p> <p>6.Assignment (based on revision exerise of text)</p>

<p>DISCUSSION</p> <p>1. What are exponents?</p> <p>2. What are the laws of exponents?</p> <p>2. What are the laws of exponents with integral pov exercise</p> <p>3. What is a scientific notation?</p>	work sheet based on the entire chapter	Short classes test based on individual text exercise	<p>1.Oral test</p> <p>2.Questions based on concepts (Definations, Properties and Rules)</p> <p>3.M C Q's based on</p>
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(reasoning , application  
and problem solving

4.P/p test

2 Q's carrying 2 marks

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5.Lab activity

(based on chapter)

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