

NEW ERA HIGH SCHOOL, PANCHGANI
MATHEMATICS ASSIGNMENT – 2
CLASS IX

Lesson :	Number Systems
Time Line :	04 May to 09 May, 2020
Objectives:	<p>The students will be able :</p> <p>(i) Identify, and define rational numbers, irrational numbers</p> <p>(ii) Deduct the nature of decimal form of rational numbers and irrational numbers</p> <p>(iii) Deduce the theorem about the nature of denominator of p/q form of a rational number to give a terminating decimal.</p> <p>(iv) Classify Real numbers into Rational and Irrationals on basis of their decimal forms.</p> <p>(v) Represent given real number on the number line.</p>
Expected Learning Outcome:	<ul style="list-style-type: none"> • Natural Numbers, Whole Numbers, Integers, Rational Numbers and Irrational Numbers • The method of plotting square root of natural and decimal numbers on the number line. • The laws of exponents
Methodology:	<p>The transaction should proceed in the following manner-</p> <p>Introduction of the topic- PPT and Digital Content on Diksha App</p> <p>Open the Diksha App click on English Medium > Click on class 9> Click on Mathematics> Click on Number Systems >Click on Explanation> Click on Explanation Videos > Watch following videos:</p> <ul style="list-style-type: none"> • Proof: there's an irrational number between any two rational numbers • Converting repeating decimals to fractions (part 1 of 2) • Intro to rational exponents • Worked example: rational vs. irrational expressions • Proof: square roots of prime numbers are irrational <p>After watching video Click on the Question Bank and solve very short questions, short answer questions and long answer questions based on the above topics.</p>
Assessment of qualifying knowledge	<p>After watching video Click on the Question Bank and solve the following based on the above topics:</p> <p>1] Very short answer questions: Q1, Q4 & Q5.</p> <p>2] Long answer questions: Q1, Q2 & Q3.</p> <p>Multiple Assessment Activity:</p> <p>For the activity follow the following steps:</p> <p>Open the Diksha App > Click on class 9> Click on Mathematics> Click on Number Systems >Click on Explanation Content > Click on Classroom teaching Videos > Click on Number System (Part 1) and watch the video upto 7.50 minutes from the beginning. Draw the “Square Root Spiral” as explained in the video as multiple assessment activity on a separate blank sheet.</p>

Submission:	<p>Students should do the Multiple Assessment Activity, scan it and send it to geetha.reddy@nehs on or before May 09,2020. The hard copy to be submitted when the school reopens.</p> <p>Answers based on the above questions from Diksha can be done in a notebook to be submitted when the school reopens.</p> <p>Please note that the above activities are part of the internal assessment and are mandatory.</p>
Resources:	<p>Click on the following link to download the lesson 01 – Number System. http://ncert.nic.in/textbook/textbook.htm?iemh1=0-15 .</p> <p>NCERT text book Diksha App.</p>
Teacher:	<p>Ms. Geetha Reddy (Phone No 9421360875) Please call between 9.00 a.m. To 5.00 p.m. for your doubts and queries.</p>

