Mathematics (Class-IX)

Learning Outcomes	*Sources/ Resources*	*Week-wise Suggestive Activities (to be guided by teachers/parents)*
The learner • applies logical reasoning in classifying real numbers, proving their different properties and using them in different situations.	**NCERT/State Mathematics Textbook** Chapter 1: NUMBER SYSTEMS	**WEEK 1** • Discussion through emails/ Whatsapp can be held about rational numbers which may include encouraging students to send contexts in which they have used rational numbers. • The students can frame questions, such as, how many rational numbers are there between say, 2 and 3, etc., and can send it to each other. They can refer the exemplar problem book in mathematics for Class VIII, which is available on the NCERT website. • The teachers can also encourage students to pose problems from these online books and also the e resources for Class VIII available on NROER. **WEEK 2** • The teachers can give some rational numbers to be converted to decimal forms. The difference between the decimal forms of different rational

		numbers should be asked to students. • The students may also be encouraged to make different decimal expansions for themselves. The different decimal numbers can then be discussed to evolve the concept of irrational numbers. The textbook for Class IX is also available on the NCERT website and can be used during online discussions. **WEEK 3** • One suggested activity: Teachers may send one context to the students where irrational numbers are used. Students may be encouraged to provide more such contexts. • A discussion about the properties of rational and irrational numbers may be held. • Exercises from the textbook and Exemplar problem book of Class IX (available on the NCERT website) can be done. Teachers can ask students to do activities on the concepts discussed using the Laboratory manual (available on the NCERT website) (Activities 1, 2) for secondary stage. These need to be sent online and their logic explained. • Assessment of students can be done by observing their responses. Appropriate feedback can then be given. **WEEK 4** The work of Week 3 may be carried further in this week.