Mathematics (Class-X)

Learning Outcome	Sources/ Resources	Week wise activities (to be guided by parents)
The learner generalises properties of numbers and relations among them studied earlier to evolve results, such as, Euclid's division algorithm, Fundamental Theorem of Arithmetic and applies them to solve problems related to real life contexts.	**NCERT/State Textbook Mathematics Chapter 1: Rational Numbers**	**WEEK 1** • The teacher may engage students by sending them different decimal numbers and asking them to distinguish between rational and irrational numbers. Students have to justify their answer. Whatsapp groups or emails can be used for this interaction. • The teacher may send contexts in which HCF and LCM are used. She may ask students to send some more such contexts. **WEEK 2** • The statements of the definitions and theorems in the chapter need to be discussed. • The proofs of the theorems should be discussed. Students should try to send their views and analyses. **WEEK 3** • Using the already learnt methods of representing real numbers on the number line students may be encouraged to locate numbers like $\sqrt{x}$, where x is a decimal number, on the number line and justify the method mathematically. • Students may be sent different groups of numbers such as 2, $2^{1/2}$, $2^{3/2}$, $2^{5/2}$, etc., and asked to arrange them in ascending or descending order. They should be encouraged to justify it. **WEEK 4** • Exercises from Chapter 1 of the textbook, problems from exemplar problem book for Class X and activities from Laboratory manual (Activity 1) for secondary stage may be discussed. All this material is available on the NCERT website. E-resources related to this topic can be seen on NROER. • Assessment of students can be done by observing their responses. Appropriate feedback can then be given.