The study deals with the effectiveness of new instructional methods in teaching mathematics at the secondary level school education for attaining better achievement in mathematics. The research scholar has been tempted to carry out this study on the background of the deplorable performance of pupils in the final and class examination of mathematics at the secondary and higher secondary schools of Arunachal Pradesh. The result of the final examination of the CBSE in mathematics is not encouraging. The percentage of pass in last five years in mathematics in the above examination was lying between 19-21%. This leads the investigator to undertake this work. The whole volume of work is divided into six chapters. Chapter I covers the introduction of the study, background of the problem; and the need and rational of the problem.

Chapter II gives a detailed account of the problem, mainly the objectives and hypotheses of the problem, in relation of the educational scenario of Arunachal, its population pattern and geographical factor.

Chapter III deals with the related researches conducted in India and the outside of India of recent origin. The related study shows that there are number of works done regarding the different methods of teaching in the field of mathematics. The area of effectiveness and efficiency of new instructional methods are still required to be taken care of. As such the investigator of this study has taken this venture to go in detail about the effectiveness of new teaching methods in mathematics.
Chapter IV describes the sample design, the procedure and the methods of studying the problem. The sample has been designed for pupils of class IX and class X under rural and urban settings. The experiment has been conducted on experimental group and control group. Both the teaching and the testing have been conducted. Data are collected and treated statistically.

Chapter V devotes the complete analysis of the data obtained for the experiment as well as for the school records. The required interpretation of the results are also incorporated along with the analysis.

Chapter VI discusses the results of the experiment along with the respective interpretation. From the discussion few things have been emerged as findings of the study. Lastly the conclusion of the study has been made.