# TABLE OF CONTENTS

## CHAPTER I  INTRODUCTION  
 1.1 Statement of the Problem   
 1.2 Objectives of the Study   
 1.3 Hypothesis   
 1.4 Significance of the Study   
 1.5 Delimitation of the Study   
 1.6 Method of Study   
 1.6.1 Population   
 1.6.2 Sample   
 1.6.3 Research Instrument   
 1.6.4 Data Collection   
 1.6.5 Data Analysis   
 1.7 Summary  

## CHAPTER II  REVIEW OF LITERATURE  
 2.1 Introduction   
 2.2 Traditional Method of Teaching   
 2.3 Information and Communication Technology   
 2.4 Effectiveness   
 2.5 Learning   
 2.5.1 Behaviorism   
 2.5.2 Operant Conditioning   
 2.5.3 Cognitivism   
 2.5.4 Constructivism   
 2.5.5 Students Learning and Technology   
 2.5.6 Potential Role of ICT in Transforming Teaching & Learning   
 2.5.7 Connectivism Approach to Learning   
 2.5.8 Principles of Connectivism   
 2.6 Current Situation of the Use of Technology   
 2.6.1 Goals for the Use of Technology   
 2.6.2 Role of Teacher in the Use of Technology   
 2.6.3 Benefits of Using ICT for Students   
 2.7 Nature of Mathematic   
 2.7.1 The Importance of Mathematics   
 2.7.2 Investigating Mathematics   
 2.7.3 Objectives of Teaching Mathematics   
 2.8 Curriculum   
 2.8.1 National Curriculum for Mathematics   
 2.8.2 Mathematics Curriculum for Class IX   
 2.9 Teaching Strategies   
 2.9.1 Effective Strategies for Teaching of Mathematics   
 2.9.2 Role of Teacher in Teaching of Mathematics
APPENDICES

Mathematics Paper for Class IX  Appendix A
Statistical data  Appendix B
Lesson Plans (control groups)  Appendix C
Lesson Plans (experimental groups)  Appendix D