

Appendix-A

CLASS OBSERVATION FORM

Name of teacher:

Class: Topic: Period: Time:

Total Number of students: Male: Female:

Observed Items	Yes/No
<p>I. Pre...</p> <ol style="list-style-type: none">1) The availability and quality of furniture, chalkboard.2) Motivation provided3) Review/preview provided4) Teacher presentation of lesson	
<p>II. While...</p> <ol style="list-style-type: none">1) Materials presented2) Students participation in the class3) Opportunities provided for questioning to students?4) Many examples provided to concepts	
<p>III. Post.....</p> <ol style="list-style-type: none">1) Summarization of unit2) The quality of classwork and homework3) Checking the achievement of objectives4) Appropriate feedback provided	

Appendix-B

Interview Guidelines for Mathematics Teacher

Name: _____ Qualification: _____

Age: _____ Sex: _____

College name: _____ Teaching Experience: _____ Training: _____

Open- ended questions:

Classroom Management:

- Difficulties in completion of limits if taught using teaching materials, are you agree?
- What kinds of problems do you find during teaching limit?

Pre concept of students for learning:

- Poor foundation of students in lower level possess problem in teaching learning limits?
- What kinds of pre knowledge are necessary for teaching learning limits?

Teacher training (Pre- service and in -service):

- Is refreshment training is regularly?
- Are teacher training is sufficient? If not what type of training, seminar and conferences do you need?

Teaching methods and materials:

- What kinds of teaching strategies do you follow for teaching limits?
- Do you use lesson plan regularly?

School management and administration:

- What do you aspect more from school administration to make class effective?
- Is mathematics teaching manual, other journals available in your college which helps teaching learning limit?

Appendix-D

Observation sheet to the teachers on factors responsible for the difficulty and suggestion measures in the teaching and learning of limits in Grade XI.

S/N	Items	Responses		
		SA	A	D
Classroom Management				
1	There is a mathematics laboratory or mathematics lab in school			
2	Board is good and enough space in mathematics classroom			
3	Difficulties in completion of limits course if taught using teaching materials			
4	School is well equipped with desk and bench in the classroom according to the number of students			
5	Boredom feeling in limits teaching.			
Mathematical Instruction, Method and Materials				
6	Teaching machine and computer are available in limit classroom			
7	I don't make plans (yearly as well as unit) because I don't know how to do it			
8	There is a lack of proper space to demonstrate instructional materials			
9	Library facility is available			
10	The room is equipped with a graph and bulletin board			
11	I make daily lesson plans			
12	Some of the portion of limits are difficult to teach			

13	Refreshment training is given regularly			
14	I make and frequent use of instructional materials (other than text book) to motive my students and make limits more meaningful			
School Management and Administration				
15	Compulsion to take more classes because of low number of mathematics teacher			
16	Irresponsible administration to manage and construct necessary teaching materials			
17	Refreshment training is given regularly			
18	Lack of facilities and reward for the good performance			

If you have faced any other problem then mention below:

- a)
- b)
- c)