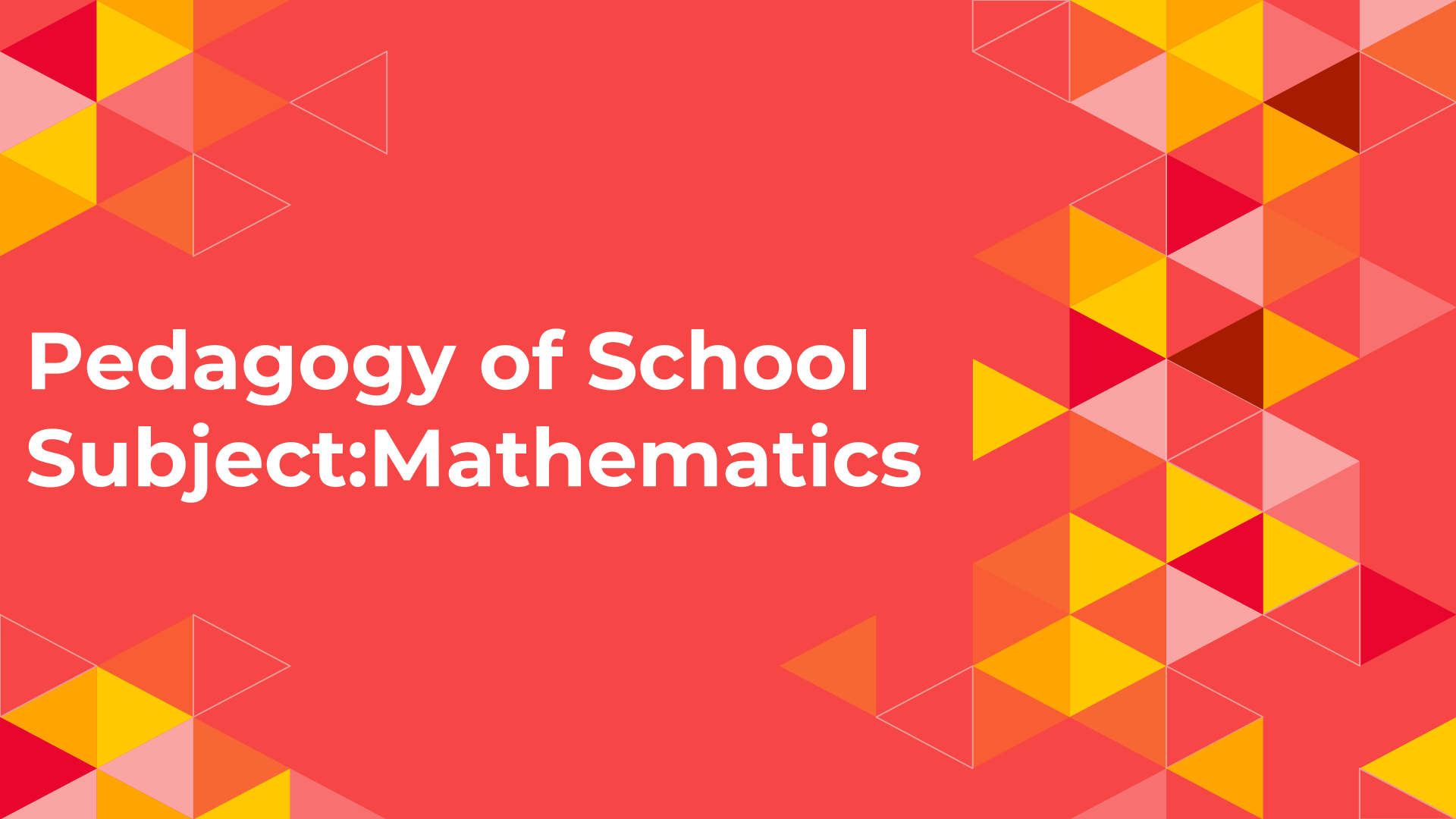


WELCOME TO SEMESTER 2

DR. VINI SEBASTIAN
ASSOCIATE PROFESSOR





Pedagogy of School

Subject: Mathematics

PERSPECTIVE OF THE PAPER

CONTENT OF
MATHEMATICS

PEDAGOGY OF
MATHEMATICS

TECHNIQUES,
ACTIVITIES,
PROFESSIONAL
GROWTH IN
MATHEMATICS
TEACHING

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What will you learn !

**What you need as a
Mathematics teacher?**

Content – Internship

**Practice of Pedagogy -
Internship**



MODULE 1
MODULE 2
MODULE 3*

EACH MODULE HAS 3 UNITS
EACH UNIT HAS 3 SUBUNITS





“

[https://ed.ted.com/lessons/
why-do-people-get-so-
anxious-about-math-orly-
rubinsten](https://ed.ted.com/lessons/why-do-people-get-so-anxious-about-math-orly-rubinsten)

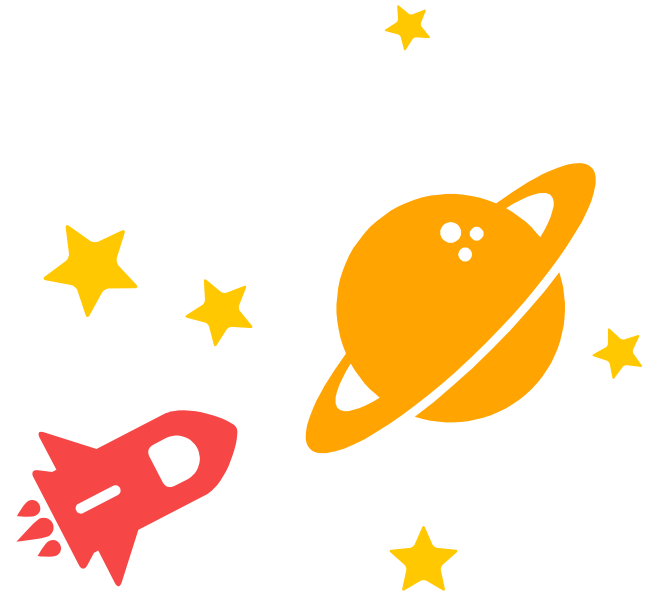


ORGANISATION OF THE CONTENT

- ▶ **BASIC KNOWLEDGE OF MATHS AND MATHS SUBJECT**
- ▶ **PEDAGOGY AND RESOURCES IN MATHS**
- ▶ **TEACHER'S PROFESSIONAL GROWTH**

BASIC KNOWLEDGE

- ◀ 3A – MAXIMS OF TEACHING
- ◀ 2A-MEANING, NATURE..
- ◀ 2C-VALUES OF TEACHING MATHS
- ◀ 1A&B- ACADEMIC DISCIPLINES
- ◀ 1C-PLACE OF MATHEMATICS





PEDAGOGY AND RESOURCES IN MATHEMATICS – UNITS 4 & 5

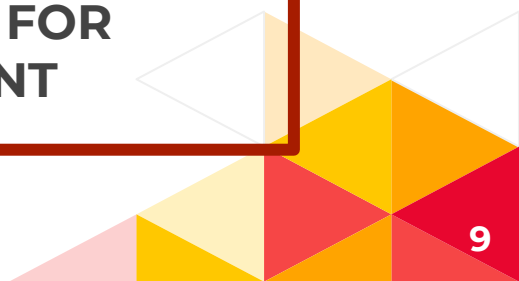
METHODS OF TEACHING

UNIT 4

- DIFFERENT METHODS OF TEACHING
- TECHNIQUES OF TEACHING

SUPPORT MATERIALS AND ACTIVITIES

UNIT 5

- LEARNING RESOURCES
 - ACTIVITIES FOR ENRICHMENT
- 

TACHER'S PROFESSIONAL GROWTH

CURRICULUM

2B- AIMS,
OBJECTIVES OF
TEACHING MATHS.

3B- APPROACHES
OF CURRICULUM
CONSTRUCTION

3C- PEDAGOGICAL
ANALYSIS

TEACHER

6A-
COMPETENCIES

6B-
PROFESSIOANL
DEVELOPMENT

MATHEMATICIANS

6C

-ARYABHATTA

-RAMANUJAN

-EUCLID

-PYTHAGORAS

PLAN OF TRANSACTION

INTERACTIVE
WORKSHOPS
WEBINARS
COURSE IN MATHEMATICS
EDUCATION

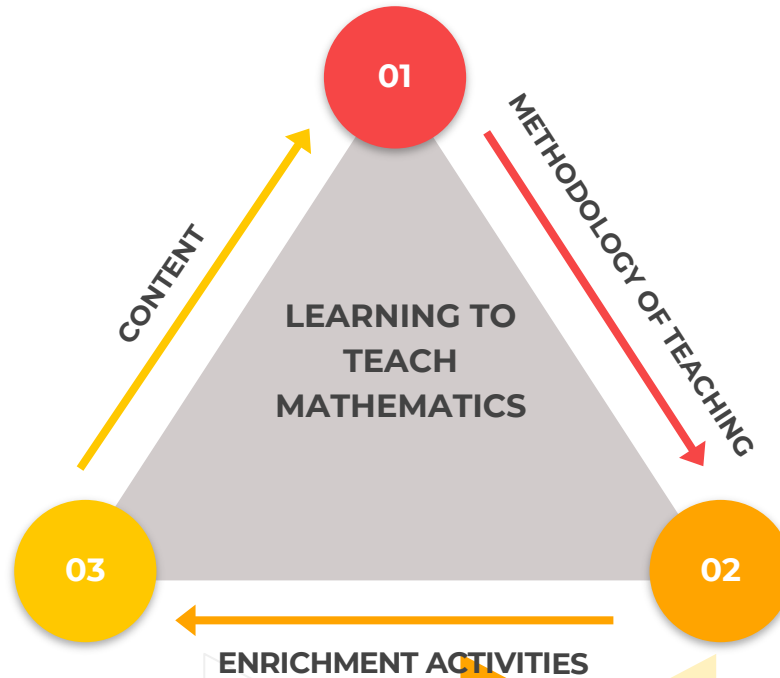




**ONLINE EDUCATION WE HAVE TO
MAKE THE MAXIMUM & IT DEPENDS
ON YOU**



PEDAGOGY OF SCHOOL SUBJECT : MATHEMATICS



COURSE OUTCOMES

1. To understand the Basic academic disciplines and the place of Mathematics in the school curriculum
2. To understand the Meaning, Nature and Scope of Mathematics
3. To understand and apply the values of teaching Mathematics
4. To orient about the aims and objectives of NCF 2005 at Secondary and Higher Secondary levels
5. To understand the Maxims of teaching Mathematics and also to formulate examples for each Maxim
6. To understand the approaches of curriculum construction and also differentiate between them.
7. To understand the method of Pedagogical Analysis and develop one with the help of Maths content
8. To understand meaning of Unit Planning and Lesson Planning and develop an example of each.
9. To understand the learner centered and activity methods of teaching, their steps, advantages and limitations
10. To apply the methods of teaching to the particular content in hand
11. To understand the meaning, advantages and limitations of the techniques of teaching Mathematics – Drill, Review and Assignment
12. To understand meaning, organization, objectives and significance of Mathematics Club.

COURSE OUTCOMES

13. To understand the meaning, significance, characteristics and critical analysis of a Mathematics textbook
14. To understand the meaning, application, advantages and limitations of digital resources (geogebra and virtual manipulatives)
15. To understand the meaning of competencies of a teacher as well as all the types of competencies required by a Mathematics teacher
16. To understand the meaning of Continuous Professional Development of a Mathematics teacher
17. To understand the need and avenues of Continuous Professional Development of a Mathematics teacher
18. To understand the contributions of Mathematicians in the field of Mathematics
19. To channelize, evaluate, explain and reconstruct students' thinking

ACHIEVEMENT OF LEARNING OUTCOMES

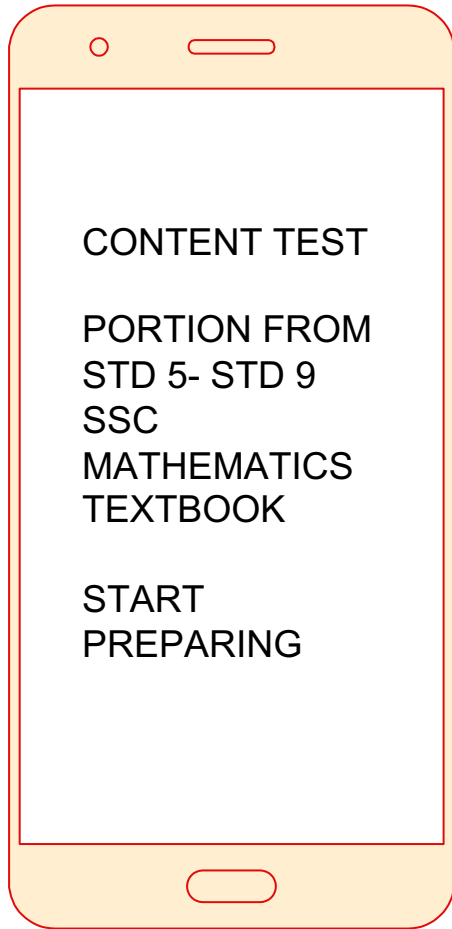
AFTER EVERY UNIT / TOPIC A GOOGLE FORM/QUIZ WILL BE GIVEN

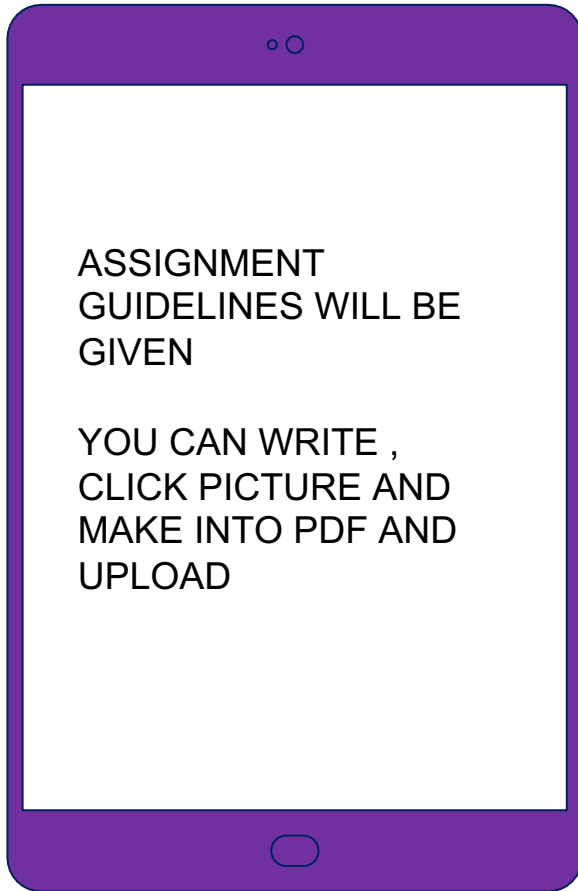
ALL STUDENTS HAVE TO TAKE THE QUIZ

THIS WILL CHECK ACHIEVEMENT OF LEARNING OUTCOMES AND CAN HELP IN PLANNING REMEDIAL INSTRUCTION

INTERNAL ASSESSMENT

- CONTENT TEST – 10 MARKS
- -1 ASSIGNMENT – 10 MARKS
- 1 CLASS TEST -15 MARKS
 - -1 ESSAY – 5 MARKS
 - TOTAL = 40 MARKS





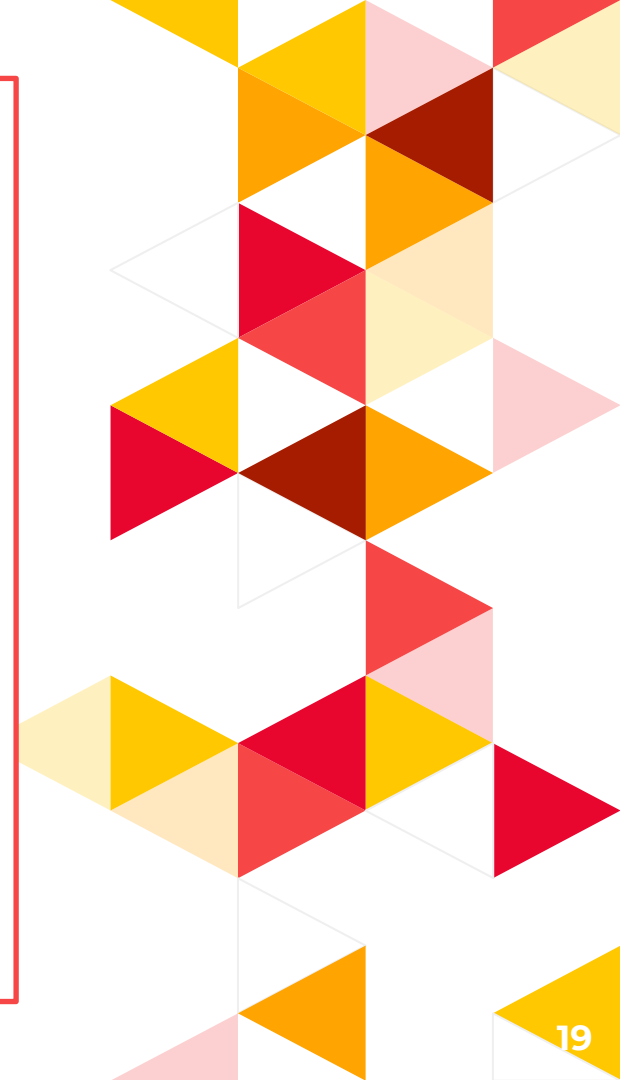
ASSIGNMENT
GUIDELINES WILL BE
GIVEN

YOU CAN WRITE ,
CLICK PICTURE AND
MAKE INTO PDF AND
UPLOAD

**ASSIGNMENT
REQUIRES INTENSE
WORK**

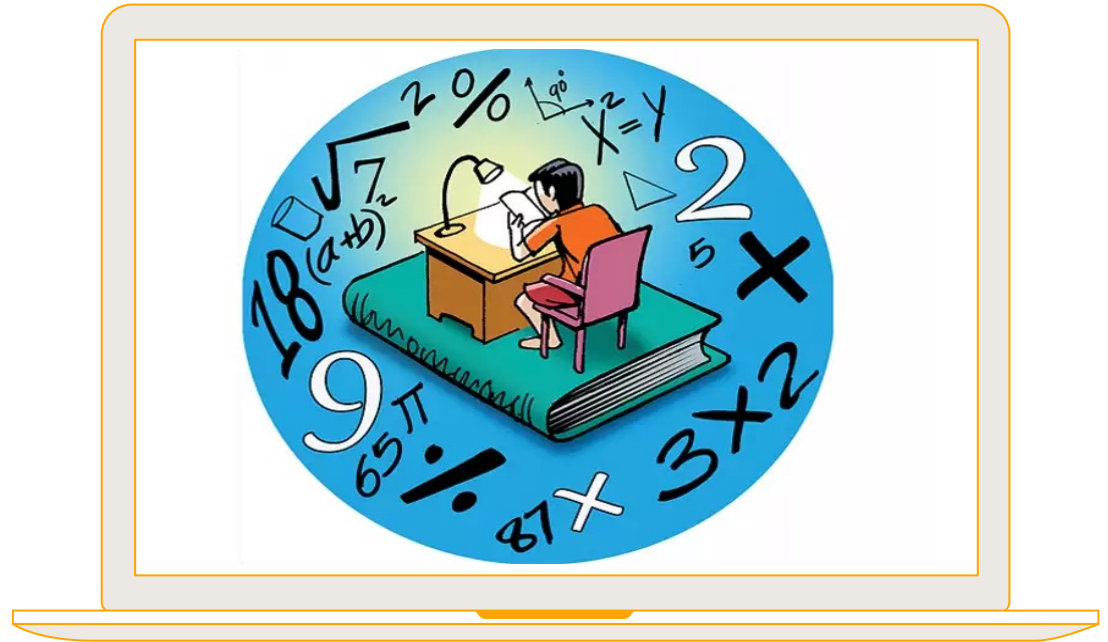
**LOT OF
REFERENCING**

**GOOD
PRESENTATION OF
THOUGHTS, IDEAS
AND CONCEPTS**



MATHEMATICS CLUB ACTIVITY

**MATHEMATICS
WEBINARS
COURSE IN
MATHEMATICS
EDUCATION**



Thanks!

Any questions?

You can find me at

vini.sxie@gmail.com

