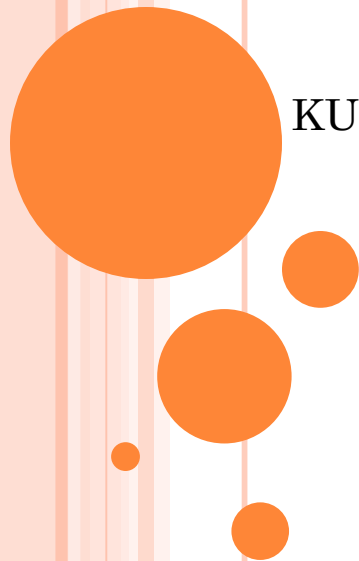


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**Subject: content methodology of mathematics
Title : Importance and functions of textbook**

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INTRODUCTION

- The textbook is an important source for learning and it plays a key role in effective teaching and learning. Therefore it is important that these textbooks do not merely supply information and facts, but also enable the student to understand and appreciate concepts and principles and their relevance in our day to day life. A text book should stimulate reflective thinking and develop problem solving ability among students.



IMPORTANCE OF TEXT BOOK

A text book is very helpful for teachers in the following way:

- ❖ A text book is written according to syllabus and gives the outline of the course. Therefore it helps the teacher to decide about the limits and depth of the content to be presented to the students while teaching.
- ❖ A textbook provide insight to the teacher in planning the lesson, in selecting problems to be worked out, the methods of teaching to be adopted and teaching aids to be used.
- ❖ The text book is written by experienced teachers of mathematics. By using textbooks, a teacher specially beginner, can avail the experience and expertise of the authors.



- ❖ The logical and psychological sequence followed in a textbooks helps the teacher in presenting the subject matter in an orderly and systematic sequence.
- ❖ A good text book presents a variety of worked examples on each topic. This helps the teacher in getting acquainted with different types of problems and the methods to solve them. This gives him more self-confidence while teaching.
- ❖ The well-graded exercise provided after every topic in the textbook help the teacher in assigning suitable home work and assignment to the students to suit their intellectual capacity.
- ❖ A textbook saves a lot of time for the teacher he need not spend time to prepare problems and the solutions as they are readily available in the textbooks.



A TEXTBOOK IS VERY USEFUL FOR A STUDENTS IN THE FOLLOWING WAY:

- It helps to foster the right study attitude among the students since the textbook presents definite and concrete details in a scientific and intensive manner which could arouse the students and curiosity
- The textbook provides important source of materials for reviewing and recapitulating the lessons taught in the class
- The textbook helps in pre-preparation of the lesson and gets the students acquainted with lessons to be taught.



- It provides adequate materials for drill and practice and thus helps in fixing the mathematical principles and formulate in the minds of the students.
- It saves time and labour of the students as the need not copy the illustrative problems, exercise problems and home work problems.
- It encourages self-study and independent work among the students.
- It supplements classroom learning and helps in the realization of the objectives of mathematics education.



- Textbook helps in clearing the doubts and misunderstanding relating to mathematical concepts principles. It also helps in correcting the mistakes that occur while copying the formulae and problems from the blackboard.
- The textbook helps in extensive study of subject as it presents different problems and various approaches to problem-solving.
- New learning activities such as individual projects, laboratory experiments and demonstrations suggested in the textbook can be carried out by the students. It permits each student to read and carry out the activity at his own rate of comprehension.



FUNCTIONS OF TEXTBOOK

- It should encourages self-study.
- It should help in developing scientific attitude.
- Text book help the classroom discussion to arrive at accurate conclusion.
- It should develop open-mindedness and co-operative attitude.
- It should open the gates of interest and develop proper attitude.



- These help the students for doing homework and the preparatory parts of assignments.
- It should serve as a guide.
- It should provide scientific knowledge in logical order.
- It should serve as a resource book for the teacher.
- Textbooks help the pupil for systematic and speedy revision of the lesson after it has been finished.
- The textbook play an important role in rural areas where students may only on textbook to the maximum extent.



- A good textbook makes the basic concepts and principles clear by giving suitable examples.
- It should provide scope for the development of basic skills like drawing labelling, collection preservation etc in students.
- It should help in reinforcing the learning of students.



REFERENCES

Teaching of mathematics

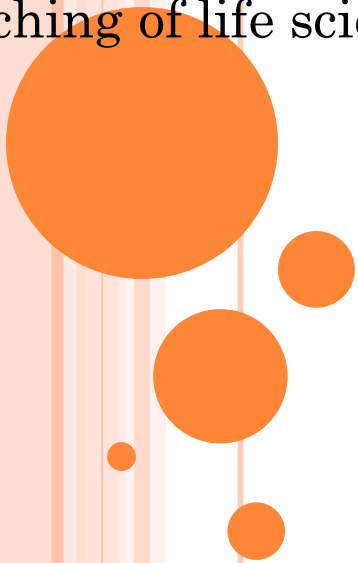
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Thank You

