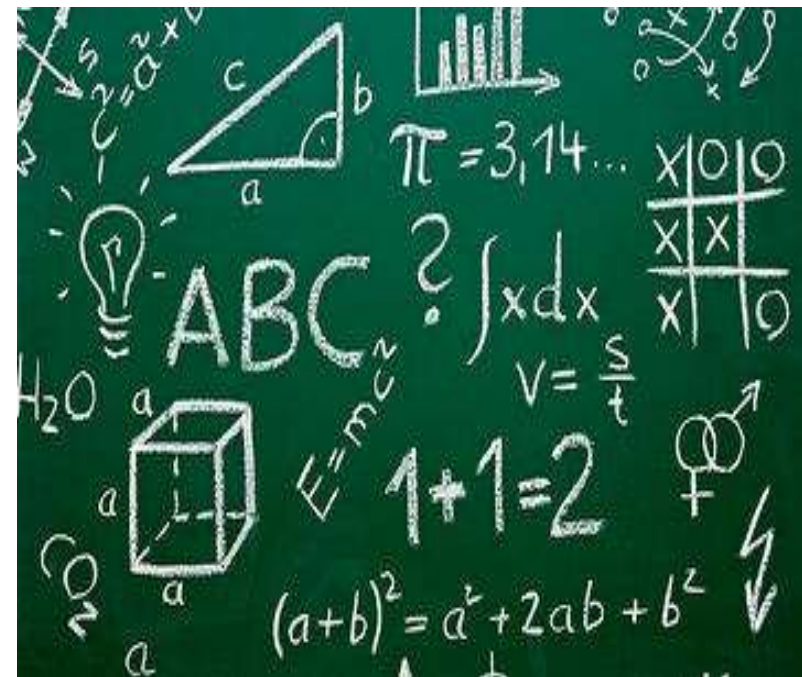


Drill and Practice in Mathematics

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Drill and Practice in Mathematics

Drill

It refers to repetitive, non problematic exercise, designed to improve skill

Practice

It refers to repetitive, problematic exercise already learned, designed for habit formation



Drill and Practice in Mathematics

The term Drill and Practice is defined as a method of instruction characterized by acquisition of knowledge or skill through repetitive practice

This is the method in which students learn by practicing and repeating the previous knowledge.

Drill and Practice is a way of teaching by providing exercise to what students have learned to acquire a particular skill.



Characteristics of Drill and Practice

- It strengthen the concept or knowledge already acquired
- It provides an opportunity of self-learning and improvement
- It leads to habit formation



Principles for using Drill and Practice

- Introduce content prior to the drill and practice session.
- Use many short drill and practice sessions instead of a few longer ones. Use both individual and group activities.
- Use competition (against self or others) to make drill more interesting.
- Make sure students are practicing the correct information or procedures. Only correct practice makes perfect
- Provide opportunities for students to apply what they master through drill and practice

Principles for using Drill and Practice

- Must be specific. Concentrate upon particular concept or operation
- Detect mistakes in student's work and eliminate them at the outset.
- Use variety of techniques to make the technique more interesting



Types of Drill and Practice

- 1. The Repetition Drill:** The teacher says models (the operation or formulas) and the students repeat it.
- 2. The Substitution Drill:** Substitution drill can be used to practice different structures
- 3. The Question and Answer Drill:** The teacher gives students practice with answering questions. The students should answer the teacher's questions very quickly. It is also possible for the teacher to let the students practice to ask questions as well. This gives students practice with the question pattern.

Types of Drill and Practice

4. The Chain Drill: The teacher begins the chain by writing first step of a question. That student respond, then turns to the students sitting next to him. The first student second step, second student third step and the chain continues. A chain drill also gives the teacher an opportunity to check each student's understanding and attentions.

5. The Expansion Drill: This drill is used when a long question or expression or proof is giving students trouble. The teacher breaks down the into several parts. The students repeat a part of the questions.

Types of Drill and Practice

6. The Communicative Drill: It is based Guessing game

7. The Feedback Drill: The teacher give restricted response questions (MCQs, Fill in Blanks, etc) at end of lesson. Once students done, they submit and will get their result immediately.

8. The Reinforcement Drill: Reinforcement drill based on practice activities that give learners the chance to apply the information, knowledge, and skills they have learned. It is based on some unseen questions or problems or puzzles

Merits and Demerits

Merits

- Successful when teaching students a specific technique
- Beneficial in saving teachers time
- A method to hone skills that need repetition for improvement.
- Helpful in strengthen the knowledge
- Students can use this technique with one another for shared learning opportunities.
- Effective in distinguishing dull and the bright students.
- Helpful in identification of the weakness of the students and difficulty level of question

Merits and Demerits

Demerits

- This method can be seen as boring and monotonous if overused or not structure properly
- Not effective when students are not prepared
- Typically for more basic knowledge
- Gives opportunity to the teacher to sit in the class and ask students to solve the exercises.
- Has been used as a method to improve test scores at the expense of learning



Thanks