

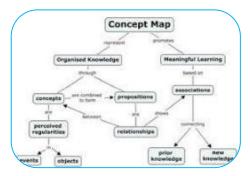


'THE USE OF CONCEPT MAPPING METHOD FOR TEACHING IN MATHEMATICS FOR SECONDARY SCHOOLS'

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SUMMARY: *Conc*

Concept Mapping method boost the teaching and motivation level towards mathematics. This Method of teaching can enhance the competence of teacher to design well-structured lesson. Concept mapping method make the teaching and learning interactive. The visual symbol make grasping and concept easy and quick and it create meaning and logical sequence to teaching.

KEYWORDS: teaching and learning interactive, visual symbol.

INTRODUCTION

Concept Mapping Method Used as a learning and teaching technique, concept mapping visually illustrates the relationships between concepts and ideas. Often represented in circles or boxes, concepts are linked by words and phrases that explain the connection between the ideas, helping students organize and structure their thoughts to further understand information and discover new relationships. Most concept maps represent a hierarchical structure, with the overall. broad concept first with connected sub-topics, more specific concepts, following.

DEFINITION OF CONCEPT MAP:

A concept map is a type of graph organizer used to help students organize and represent knowledge of a subject concept maps began with a main idea and then branch out to show how that idea can be broken down into specific topics.

CONCEPT MAP IN EDUCATION:

A concept map is a learning tool. A concept mapping is a powerful way for students to reach high levels of cognitive performance. Concept map based on the cognitive theories of David Ausubel (Assimilation Theory). Concept maps consist of two or more concepts connected by a labeled link.

It is useful to encourage creativity and develop higher level thinking skills. It is useful to provide teachers feedback of student's errors and the development of students understanding.

ADVANTAGES OF CONCEPT MAPS:

- 1. It helps memory recall.
- 2. It helps to clarify and structure ideas.
- 3. It is an active assessment.
- 4. Graphic representations are usually easiest to understand.
- 5. It helps students to storing large amount of information.
- 6. Concepts maps help students to develop meta-cognitive skills.

The process of concept mapping involves three steps:

- List key concepts related to the topic.
- Build up concepts to elaborate key concepts.
- Identify links between concepts.

Designing a Good Concept Map:

- Selection of a drawing medium.
- Create a main concept.
- ➤ Identify key concept.
- Organize shape and lines.
- > Fine tune to map.

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Designing of a good Concept Map:

Introduce concept map to students one way is by showing them overview of a partial concept map on a subject and discuss to fill in the rest of the hierarchy. Ensure the students about objective of the assessment. Provide time period, guideline, assessment criteria to students. Provide sufficient time to respond.

The important implication of concept map:

- The constructor should study the themes of the concept map.
- The concept map is a visual aid which gives information to understanding complex situation.
- Concept maps are integrated with logical sequences and have continuity
- Visual symbols make grasping a concept easy and quick.
- The units of study that are meaningful, academically sound, relevant, and of interest to students.
- Concept mapping is the creative process of organizing content in Mathematic. Developing Mathematical literacy and fostering Mathematical thinking concept maps are useful. For successful learning of Mathematics, concept maps are helpful.

Advantages of Concept Map Assessment:

- 1. It encourages collaborative learning and team knowledge mapping.
- 2. It allows deep learning. "Picture tells a thousand words"; graphic representations are usually easier to understand and retain.
- 3. It can be used in a large class setting either individually or collaboratively, by giving the students a partially filled concept map, or a few concepts to fill on the maps.
- 4. It mirrors what exactly real business uses and provides the students a sense of the real world.
- 5. It is an active assessment.

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