

JSS Mahavidyapeeta, Mysuru-570004
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Subject / Course: Pedagogy of School Subject - Physics.

Assignment / Seminar on

"BRUNER'S CONCEPT ATTAINMENT MODEL OF
TEACHING PHYSICS"

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JSS MAHAVIDYAPEETA MYSORE-04
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SAKLESHPUR 2022-23

SUB: PEDAGOGY SCHOOL SUBJECT physics
TOPIC: CONCEPT ATTAINMENT MODEL

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INTRODUCTION

- The concept attainment model is designed to help students to learn concepts and help them to become more effective in learning concepts. It has been based upon the studies made by Jerome S Bruner and his associates Jacqueline Goodnow and George Austin.

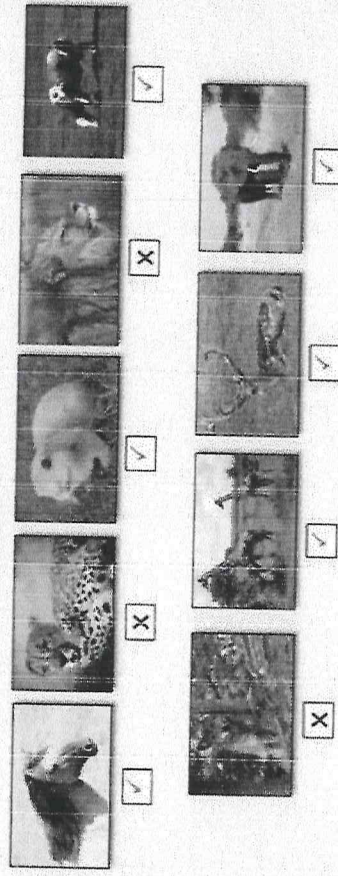
CONCEPT

- Concepts are the basic tools of thinking.
- Concepts reduce need for constant learning.

MEANING OF CONCEPT

Concepts is mental representation or a mental picture of some objects or experience. It represents a category of objects which share common properties.

Exercise



What is the similarity in the animals marked with

Elements of concepts

According to Bruner a concept includes five elements. They are,

- 1) **Name**
- 2) **Exemplars**
- 3) **Attributes**
- 4) **Attribute value**
- 5) **Rule**

FUNDAMENTAL ELEMENTS OF BRUNER'S CAM

- 1) **Focus**
- 2) **Syntax**
- 3) **Social system**
- 4) **Principles of reaction**
- 5) **Support system**

DESCRIPTION OF THE MODEL SYNTAX

- Phase 1: Presentation of data and identification of concept
Teacher presents labelled exemplars, students compare attributes and generate hypothesis, attempts a definition.
- Phase 2: Testing the Attainment of concept
Teacher presents unlabelled examples as Yes or No, teacher confirms hypothesis, gives the name and helps arrive at the restatement of the definition, students generate more examples.
- Phase 3: Analysis of thinking strategies
Discussion of the process, the pupil recollect how they attain the concept.

EXAMPLE

- STEP1:** Create a "Yes" and "No" section.
- STEP2:** Provide two or three very strong "Yes" examples.
- STEP3:** Provide two or three very strong "No" examples.
- STEP4:** Show more examples and non examples.
- STEP5:** Let students discuss and provide either an example or non example.
- STEP6:** Show a new non example.
- STEP7:** Students share, discuss and refine their definitions

MERITS OR ADVANTAGES OF CAM

- This model develops the power of reasoning in the students.
- It develops the imagination ability of students.
- It helps the students in their intellectual development,
- It helps in making the students very good observers.
- The students learn to analyse things systematically.
- The students remain active engaged during the process of teaching learning.
- It develops the habit of self study among the students.
- It is possible to pay individual attention.
- Students learn a natural way, they do not face any type of stress or strain.
- It enables the students to apply their knowledge in different situations.

DEMERITS OF CAM

- A students may have wrong hypothesis for some time and he may go on thinking in wrong direction.
- Some students in the classroom may remain absent minded.
- All the students in the classroom may not be able to participate in the teaching learning process, the students who are active may participate fully and other may not find any opportunity to participate.
- Time consuming

CONCLUSION

- Concept attainment model has great relevance for teachers who intend to improve the instructional system. This model guides teachers to go to the depth of the content. And helps students to attain new concepts. So the model has a great attribute on teaching learning process.

REFERENCE

- <https://blog.teachmint.com/concept-attainment-model/>
- <https://www.slideshare.net/NishatPande42/briners-concept-attainment-model>

Thank you



Criteria in assessing assignment / seminar

Components	Max. Marks	Marks obtained
First draft	2	2
Quality of Information	2	2
Organization	2	2
Presentation	2	2
Discussion	2	1.5
Total	10	9.5

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