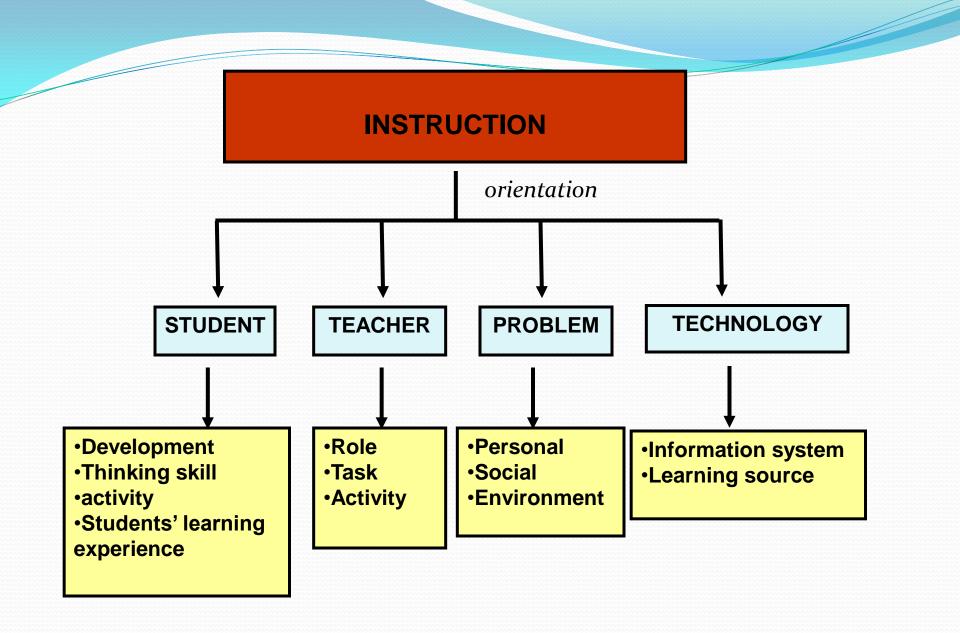
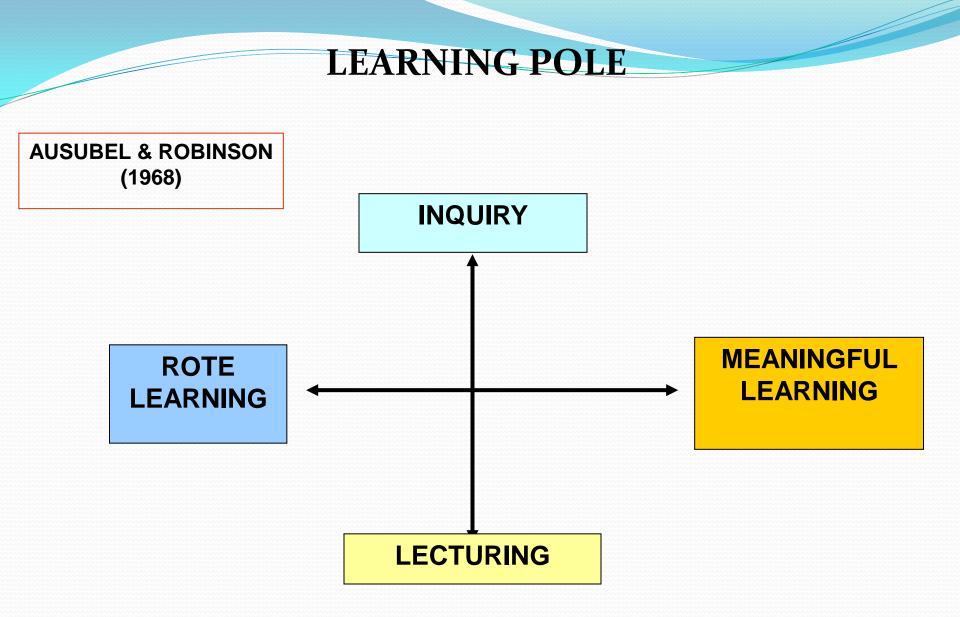
MODEL, APPROACH AND METHOD OF TEACHING

Diana Rochintaniawati





MODEL AND APPROACH

What is the difference between model and approach?

Let us discuss.....

MODEL OF TEACHING

Design that picture the process and environment situation creation which makes student interact each other in order to make change or development in students (related with planning strategy)

CHARACTERISTICS OF GOOD MODEL:

- Have scientific procedure
- Have specific learning outcomes
- Environment of learning is clear
- Criteria of learning outcome is clear
- Process of instruction is clear

CLASSIFICATION OF TEACHING MODEL (Joyce and Weill)

- Social Model
- Information Processing Model
- Personal Model
- Behavioural Model

TYPE OF TEACHING MODEL

- Problem solving
- Learning Cycle
- Inductive Model (Hilda Taba)
- Inquiry Model(Richard Schuman)
- STS (Science Environment Technology Society)

PROBLEM SOLVING

Consists of 5 syntax:

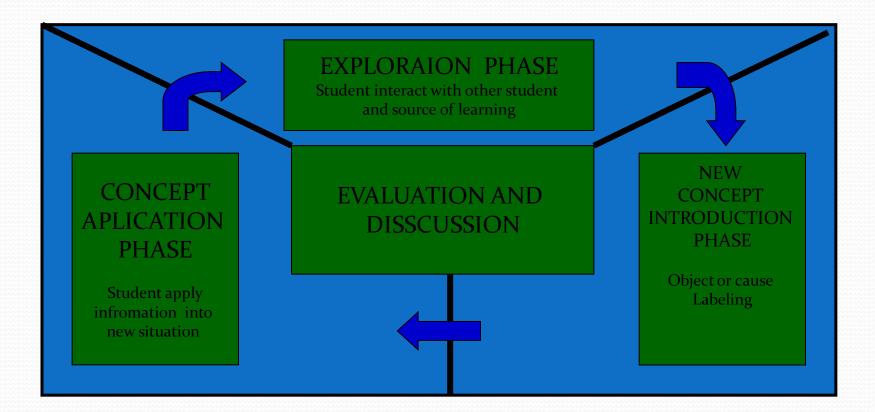
- 1. Determine the problem (could be taken from problem in society which relevant with students).
- 2. Applying knowledge, procedure and information from sources
- 3. Plan the activity (organize data: graffic, chart etc)
- **4**. Group activity: communicate the finding
- 5. Real activity: social worker, social activity etc.

LEANING CYCLE

Steps of Learning Cycle:

- 1. students' prior knowledge
- 2. Motivate student to pose idea based on his/her prior knowledge.
- 3. Introduce new specific information to student (definion, concept etc)
- 4. Plan activity to give student experient (challenging, conflict cognitive, develop idea)
- 5. Guide student to questioning, discussing, debating and making conclusion as well as developing concept.

KARPUS AND THEIR LEARNING CYCLE MODEL (CARIN, 1997)



INDUCTIVE MODEL (HILDA TABA)

This model aims to improve students' thinking skill

There are 3 strategy of Inductive Model

- 1. Concept formation
- 2. Data Interpretation
- 3. Principle application

STRATEGY IN INDUCTIVE MODEL

STRATEGY I:

Phase 1: Collecting and ordering Phase 2: Classifying Phase 3: Labeling, categorizing

STRATEGY II:

Phase 4: Identifying the dimension and its relationship. Phase 5: Explaining dimension and its relationship Phase 6: Infering

STRATEGY III:

Phase 7: Making hypothesis Phase 8: Explaining and strengthening hypothesis Phase 9: Verifying the prediction

SCIENCETIFIC INQUIRY

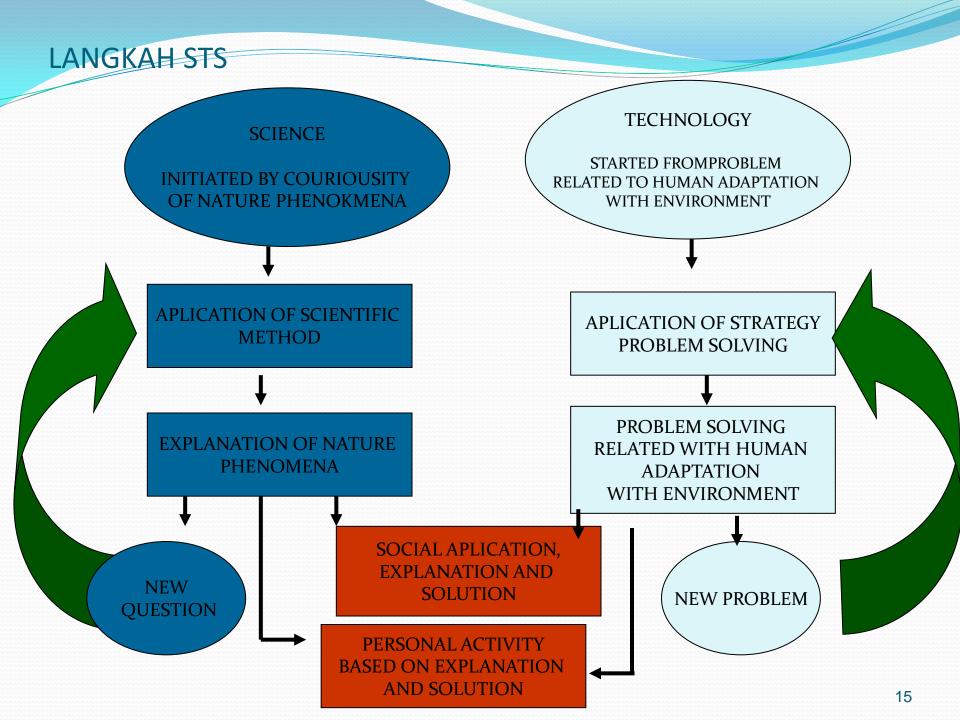
Phase 1 PROBLEM POSING

Phase 2 DATA GATHERING AND VERIVICATION

Phase 3 DATA COLLECTION (EXPERIMENTATION)

Phase 4 DATA ANALYSIS

Phase 5 CONCLUSION AND PLANNING STRATEGY FOR NEXT INQUIRY



APPROACH IN TEACHING

- Concept approach
- Environment approach
- Inquiry approach
- Science Process skill
- integrated approach
- Cooperative approach
- CTL

APPROACH AND METHOD OF TEACHING

- Approach: Emphasize on planning strategy
- Method:
 Emphasize on technic in class

SCIENCE PROCESS SKILL

- 1. observation
- 2. Inference
- 3. Classification
- 4. Prediction
- 5. Communication
- 6. Hypothesis
- 7. Plan the experiment
- 8. Concept or principle application
- 9. Questioning
- Notes: 1 3 (low level order science process skill)

4 – 9 (high order lever science process skill)

COOPERATIVE LEARNING

- Gender, academic
- Structural task for each group member

TYPES OF COOPERATIVE LEARNING:

- JIGSAW
- NHT
- STAD
- THINK PAIR SHARE
- TALKING CHIP

CONTEXTUAL TEACHING AND LEARNING (CTL)

• 1. Constructivism student centered

• 2. Inquiry Knowledge from inquiring, involving creativity and critical thinking skill.

3. Questioning Studying is productive activity, exploring information, producing knowledge and decision.

4. Learning community Cooperative and collaborative

•

5. Modeling Multi ways method, try new things and creative

6. Reflection Comprehensive learning, self evaluation/internal and external.

7. Authentic Assessment Process and product, learning experience, multi aspect test and non test

TEACHING METHOD

- Lecturing
- Discussion
- Questioning
- Experiment
- Role playing
- Demonstration
- Task assignment