

MODEL, APPROACH AND METHOD IN BIOLOGY INSTRUCTION

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Model of teaching is a description of a learning environment. The descriptions have many uses, ranging from planning curriculums, courses, units and lessons to designing instructional materials - books and workbooks, multimedia programs, and computer - assisted learning programs. The "descriptions" have been designed for a variety of different settings and can be adjusted to the learning styles of students and to the requirements of the subject matter. In general, Joyce and Weill (2002) classified model of teaching into four, they are: social model, behavioral model, information processing model and personal model. Good model has characteristics as follows: has scientific procedure, specific and clear learning outcome, environment of learning is clear, teaching learning process is clear. Several model of teaching have been developed by experts including: problem based learning; based problem learning; learning cycle; Inductive model; inquiry model; science, technology and society model. Each model developed has its own characteristics that support students' learning. Find out each of model in detail in the reference.

Approach can be differentiated from model. When someone uses the model and she/he does not follow the syntax of the model, then we can call it as an approach. In short approach can be said as a loose way using of model. However, some approach is developed not based on the model, such as: environment approach, concept attainment approach and science process skill approach.

Method of teaching related to the application of strategy in class. For effective teaching to take place, a good method must be adopted by a teacher. A teacher has many options when choosing a style by which to teach. The teacher may write lesson plans of their own, borrow plans from other teachers, or search online or within books for lesson plans. When deciding what teaching method to use, a teacher needs to consider students' background knowledge, environment, and learning goals.

REFERENCES:

1. http://www.landmark.edu/institute/grants_research/biology_success/samples/inductiveductive.pdf.
2. <http://wilderdom.com/experiential/elc/ExperientialLearningCycle.htm>
3. http://www.lessonplanet.com/search?grade=all&keywords=learning+cycle&rating=3&search_type=related
4. http://www.accessexcellence.org/AE/AEC/AEF/1996/hilvert_biology.php
5. <http://www.ableweb.org/volumes/vol-7/9-wilke.pdf>

TASK:

Design model of Learning Cycle lesson plan to study fungi for senior high school

QUIZ.

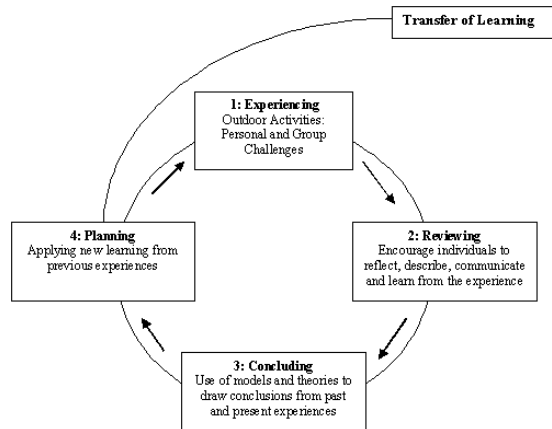
1. The picture below draws a model of teaching. The name of model is:



- Inquiry model
 - Learning cycle model
 - STS model
 - Cooperative learning model
2. What is the name of model in which students are encouraged to engage in issues pertaining to the impact of science on everyday life and make responsible decisions about how to address such issues?
- Scientific model
 - STS model
 - Inquiry model
 - Inductive model
3. What is the most important purpose of inductive model developed by Hilda Taba?
- Encourage student to be actively get involved in their learning
 - Encourage student to the impact of science in their daily life
 - Encourage student to be responsible in decision when he/she exposed to the issue

d. Develop student critical thinking skill

4. These stages of learning are belong to model of learning. The name of the model is:



- a. STS model
- b. Science process skill model
- c. Concept attainment model
- d. Learning cycle model

5. Which is from following that is not a model of teaching:

- a. Environment teaching
- b. Inductive
- c. Science Technology and Society (STS)
- d. Inquiry

6.

