

Topic:- Evaluation in Science :- Concept, Need, types

INTRODUCTION :- Evaluation is a continuous appraisal of the achievement of the aims of education, the methods of teaching and the learning experiences with a view to do continuous improvement to make education dynamic and self developing. Evaluation, a relatively modern term, introduced in the field of educational measurement, is a more comprehensive concept of measurement than is implied in conventional tests and examinations.

Meaning

Evaluation is the process of making value judgements about the quality or worth of something - an educational program, performance or proficiency of the students.

Definitions

According to Dandekar, "Evaluation may be defined as a systematic process of determining the extent to which educational objectives are achieved by pupils."

According to Remmers and Gage, "Evaluation assumes a purpose or an idea of what is 'good' or desirable from the stand point of the individual or society or both."

According to Quillen and Honra, "Evaluation is the process of gathering and interpreting evidence on changes in the behaviour of the students as they progress through school."

Uses / Need / Importance of Evaluation

- 1) Evaluation helps to classify students: ←
- 2) Evaluation leads to improvement of instruction.
- 3) Promotes better learning
- 4) Provides basis for guidance
- 5) Leads to curriculum changes.
- 6) Helps in identifying difficulties, problems of the student
- 7) Helps in assessing effectiveness of teaching method.
- 8) To stimulate the student and give them inspiration.
- 9) To help to make the body and mind disciplined.
- 10) To help to make the body and mind disciplined.
- 11) To clarify the objectives of teaching.
- 12) It is easy to administer.

- 13) Helpful in Improvement of Teaching and Learning process.
- 14) To improve student personality.
- 15) To attain success in teaching.
- 16) To test achievement of pupils.
- 17) To promote better Learning.
- 18) Helps in curriculum changes.

Evaluation Process

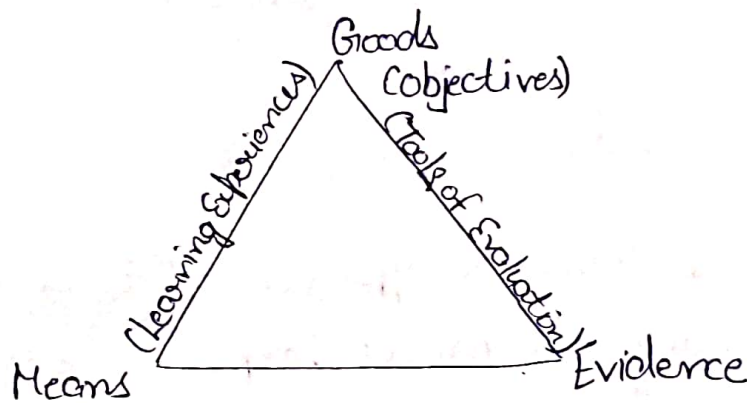
The Evaluation process or approach of teaching of science consists of following five broad steps or stages.

- 1) Formulating appropriate objectives of teaching science
- 2) Defining each objective in terms of expected learning out-comes, which produce behavioural changes in the pupils.
- 3) Developing appropriate learning experiences.
- 4) Devising and adopting suitable assessment procedure to collect adequate trust-worthy evidences about pupil achievements.

5) Evaluating the outcomes on the basis of evidences collected and modifying the necessary aspects of the entire system for better results

-V.K Kohli

It has three dimensions



Process of evaluation has three important points:-

- objectives
- Learning experience
- Tools of evaluation

