

Topics in General Science

60 Inservice Points

Component No. 1 015 001

General Objective

1. To enable instructional personnel to improve professional knowledge and expertise in science topics specific to their subject area responsibilities: preschool, elementary, middle school, and high school.

Specific Objective

1. Upon completion of an inservice workshop, the teacher should be able to demonstrate an improved teaching delivery in science education.
2. Develop lesson plans for the use of science experiments in the classroom.
3. Learning to build science projects, experiments, and concepts into unit lesson plans and general themes.
4. Developing the discovery model in science experiments and observation.
5. Developing the principles of scientific observation.
6. To develop activities that use a micro-based laboratory.

Activities

1. Teachers will be involved in a demonstration program: planning experiments, developing learning centers, preparing materials and equipment, using a science laboratory, developing specimen sets for microscope activities, developing displays, and presenting experiments and lessons using discovery, thematic, and the problem-solving approach.
2. Design units of activities in a preschool, elementary, middle school or high school curriculum.
3. Search the community and state for resources which can be used as field trips for students and study sites for teachers.
4. Search the community for free resources from industry and government.

Evaluation

1. Pre and post tests where applicable.
2. Observed demonstration lessons in workshops or classrooms evaluated by the instructor, administrator or an approved peer coach.
3. Participants will complete a workshop evaluation form.

