

Report of
One Day Workshop
(Date: 29 .01.2020)
On
Preparation of T.L.M. from Waste Materials
Organised BY:
Department of Education, AMPGC
Convenor :
Dr. Kaushlendra Singh
Assistant Professor
Department of Education, AMPGC

Resource Person: Sri Brajesh Dixit

Participants :

Total No. of Participants: 67

B.Ed. 1st year and 2nd year Students of
Department of Education AMPGC

Session : 1

S.No.	Name of TLM Prepared	Description
1.	Water Lenses (Concave/Convex)	Simple water lenses were formed using waste glass bottles.
2.	Optical Illusion	Optical illusion was demonstrated using thread and wood apparatus.
3.	Newton's Law of Gravitational Force	
4.	Centre of Mass	This was demonstrated by making a dancing doll, also by physical activities.
5.	Newton's Law of Inertia	This law was proved by many photos. Live examples using waste materials as T.L.M.
6.	Gaseous Law	The effect of different physical parameters on each other was being explained using candle-glass demonstration.
7.	Lactometer	Basic Lactometer was made to check the purity of milk regarding density.
8.	Room temperature thermometer	A room temperature thermometer was made using a straw/riffle and coloured water, which shows the best productive use of waste plastic/material.
9.	Newton's Third law of motion	This law was demonstrated by making bottle rocket. This T.L.M. can be used to teach that every action has an equal and opposite reaction and also shows that working of rocket is based on this law.

Session: 2

S.No.	Name of TLM Prepared	Description
10.	Periscope	Instructions were given to construct a basic periscope with the provided materials. This T.L.M. can be made useful in teaching reflection of light rays.
11.	Kaleidoscope	Instructions were given to construct a basic Kaleidoscope with the provided materials. This T.L.M. can be made useful in teaching multiple reflection of light rays.
12.	Black Box	A black box was made using a shoe box to show the importance of light. This T.L.M. can be made useful in teaching definition of light (Introduction of light).
13.	Dancing Doll	This T.L.M. was made to teach centre of mass of any object.
14.	Tetrahedral structure of Carbon	The structure of Carbon was made using tooth-picks and thermocol balls / small size potatoes to represents the actual bonding formed between the Carbon Atoms i.e. tetrahedral bonding. This demonstration can be made useful to teach organic chemistry.

Outcomes of the Workshop: -

The workshop was very much fruitful for the pupil teachers as it display a wonderful use of waste material as T. L. M. It also provides a broaden vision to the pupil teachers about their respective subjects and inspire them to innovate new ideas of demonstrations which can be used in classroom teaching to make it more interesting and interactive.

Glimpses of the TLM Workshop







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