

Middle School Science Workshops

Introduction

Science workshops are aimed at arming the teachers with a first hand experience of novel experiments and discovery based learning approach. Each workshop covers one science topic. These workshops are not restricted syllabus of any particular class but cover the entire portion under that topic from 6th std to 9th std.

The select topics are

- (i) Heat
- (ii) Light
- (iii) Joints in our body
- (iv) Respiration in animals

Organization of the workshop

- Sessions i : Introduction
- Sessions ii : Performing experiments set I
- Sessions iii : Discussion of observations and theoretical explanations
- Sessions iv : Performing experiment set II
- Sessions v : Discussion of observations and theoretical explanations
- Sessions vi : Strategies to be adopted in classroom
- Sessions vii : Discussion on common pitfalls, difficult concepts
- Sessions viii : Advanced topics and resolving doubts
- Sessions ix : Concluding session

Duration

Varies depending on the topic, typically 2 full day sessions

Logistics

Should be arranged in a hall where the participants can work in groups. May require some laboratory support (e.g. for heat session we may need some stoves or burners, for the workshop on cells we expect the school to provide compound microscopes for use during the workshop)