



Workshop Report

Workshop title: Capacity Building Workshop CBSE

Date: 14 and 15 May, 2019

Venue: Centre Of Excellence, CBSE, Patparganj

Attended by: Ms. Anjali Sharma

Resource person: Ms. Ishita Mukherjee

Mr. Trilok Singh Bist

Introduction:

Ms Ishita Mukherjee, a resource person with CBSE, for capacity building in Mathematics, has been working with CBSE since 2015. She is a specialist in detection of errors and finding remedies for them.

Mr. Trilok, Principal at DPS Vashundhara Delhi, is a National Teacher awardee and has been a resource person with Dehradun and Panchkula region.

Day 1- Session I

The resource person was introduced by Ms. Anjali Chhabra, Secretary CBSE. It was discussed at the outset that the mathematics community in the country needs to expand to discuss various remedial measures and pedagogical methods for helping the students .

Ms. Mukherjee discussed the ever increasing ‘Maths Phobia’, and what measures can be taken to eradicate it. The four basic operations in mathematics were explained as the four pillars of mathematics and the need to correlate maths to everyday life was reiterated.

It was explained that teaching and learning go hand in hand and a teacher always must be a learner first.

Session II

Hands on activities like TANGRAMS, were undertaken to emphasize that exchange of ideas and real time application of mathematics which is so very important. Instead of learning to

calculate quickly, students should be learning maths in a joyful way such that the concepts stay with them longer and they are able to make judicious use of their knowledge.

Session III

Mr. Trilok Bist , Principal, DPSG Vasundhara, Delhi, laid importance on mathematics teachers being prepared for the classes everyday. As practice makes one perfect, it was highlighted that intricacies of the subject can be taught only when teachers prepare themselves on a regular basis. Common errors in mathematics were discussed in the form of group activities. It was brought to everyone's notice that positivity in a class matters the most and teachers must welcome and promote alternate methods in class.

Session IV

Role of Technology in schools was discussed. Development in the world of technology has happened with the constructive use of mathematics, the potential of technology in the teaching learning of mathematics has to be tapped by all the teachers. Discussion took place about the various online tools available for teaching learning process.

Day 2

Session I

The need to plan lessons was stressed by the resource person Ms. Ishita Mukherjee. She emphasized that planning is important as it leads to proper sequencing and structuring of the curriculum. The learning outcomes have to be **SMART**, i.e, Specific, Measurable, Achievable, Relevant and Time bound.

Session II

It was emphasized by Ms. Mukherjee that recapitulating the previous knowledge should be done on a regular basis and the various methods of teaching like

- i. **Activity-based** – Useful for the pre primary and primary students
- ii. **Heuristic** –A self discovery approach to learning
- iii. **Problem solving** – The generic method of finding solutions

- iv. **Analytical approach** – The critical component of visual thinking to solve problems effectively
- v. **Inductive** –The methods of teaching involving particular examples to generalizing is INDUCTION
- vi. **Deuctive** –Moving from theory to particular problem solving is DEDUCTION
Merits and demerits of each method were discussed with the participants putting in their viewpoints . It was suggested that all the methods should be used in coherence so that they complement each other and are suitable to the students.

Session III

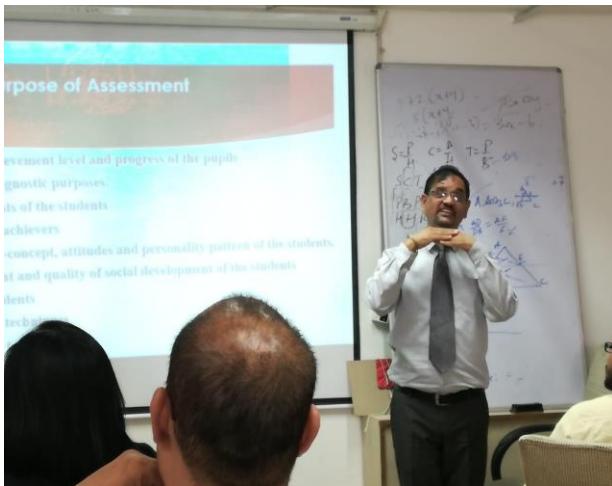
This session aimed at making mathematics meaningful for students with learning disabilities. Teaching strategies which work have to include conceptual meaning, pictorial representation and at times game based learning to make maths meaningful for the differently abled students. Being empathetic towards such children is mandatory for a teacher. It was emphasized again that teachers have to go an extra mile to include differently abled children in the mainstream.

Session IV

The latest blueprint for CBSE class X mathematics paper was discussed with input from resource person Mr. Trilok Singh Bist and CBSE secretary Ms. Anjali Chhabra who elaborated that the students are to be taught using the text books and the standard / basic exam choice has to be done at the time of registration and L.O.C preparation using inputs from the parents, teachers and students.

GENERAL FEEDBACK	YES /NO/NOT SURE
The workshop was applicable to my job	Yes
We will recommend this workshop for other faculty members.	Yes
The program was well paced within the allotted time.	Yes
The material was presented in an organized manner	Yes
The resource person was a good communicator	Yes
The resource person was knowledgeable on the topic	Yes
We would be interested in attending a follow-up, more advanced workshop on this same subject	Yes
We will be able to conduct follow up workshop for the benefit of fellow Staff Members	Yes

Glimpses from the Workshop



Report submitted by:

Signature:

Name: Ms.Anjali Sharma

Designation: PGT