



**Workshop/Seminar title:** Summer Vacation Professional Development Programme (Mathematics)

**Workshop/Seminar Date:** 13.05.19 to 16.05.19

**Venue:** BBPS Training Center, Pitampura

**Attended by:** Ms. Pooja K., Ms. Arpita S, Ms. Anita, Ms. Ruchika Khanna

**Resource Persons:**

- **Mr. Dharam Prakash**
- **Mr. A. K. Rajput**
- **Ms. Gunjan Khurana**

**1. Content of the Workshop/Seminar**

• **DAY-1: 13.05.19**

- Inauguration: Dr. Bishwajit Saha ( Chief Guest )

Motivational speech by Dr. Saha, the Director of Training in CBSE about the role of Primary Teachers in education, emphasizing on child centric and inter disciplinary approach.

- **Session 1: By Mr. Dharam Prakash**

**Mr. Anup K. Rajput**

It started with an introduction to the workshop, followed by the discussion about the salient features of the maths textbook, basic pedagogical philosophy and ELPS approach.

E – Experience with physical objects,

L – spoken Language that describes the experience,

P – pictures that represent the experience,

S – written symbols that generalize the experience

It encourages pupils to draw upon their previous experiences when attempting to understand new concepts. What we need to do is to start with the real problems, and work from them to abstract representations, not the other way around.

- **Session 2 : By Mr. A. K. Rajput**

**Numbers and number operations** – Activities and understanding the textbook. The session was based on 4 fundamental operations in mathematics and the importance of activities in teaching learning process was also discussed



- **DAY-2: 14.05.19**

- **Session 1 & 2: By Mr. A. K. Rajput**

**Learning Outcomes: Competencies and Skills in Learning Mathematics**

**Solids, Shapes and Spatial understanding – Activities and Understanding the textbooks**

In the first session, various problem solving strategies were discussed. Children should be allowed to develop their own rules/strategies of solving various questions, so that later they will not have any difficulty in changing the same. It was emphasized that the exceptions in mathematics are important. The correct methods of conducting various activities given in the book were discussed.

- **Session 2**, The focus was laid on the importance of discussion with the child. The question – WHY? should be asked to enable the child to think in a logical manner and develop critical thinking. The children should be encouraged to develop their own strategies to solve, thereby allowing exploration and experimentation. The session was made interactive by giving various examples and conducting useful activities.

- **DAY-3: 15.05.19**

- **Session 1 : By Mr. A. K. Rajput**

Assessing the children –integrating assessment with pedagogy

Teachers should equip students so that they may devise their own ways in solving problems and enhance their creative thinking .The students should be encouraged to ask ‘WHY’ along with “What and How” in the classroom .Teachers should compose thought provoking questions in question papersand encourage ‘questioning’ among students .Analytical thinking , creativity should be developed in students and promote Hands On and Activity Based Learning.

The session was very well planned and indeed an enriching experience for the teachers who are teaching primary classes.

**Session 2:** Teachers from Pitampura school gave presentations on making teaching learning of Maths innovative, interesting and fun through hand on activities .They shared their experiences and responses from the learners. Mr. A.K Rajput suggested various ways to make the topics interesting, creative and how to extend the leaning in real life also.

- **DAY-4: 16.05.19**

- **Session 1: Mr. A. K. Rajput and teachers from Gangaram and Rohini branch**

Teachers presented various hand on activities to make teaching learning process more interesting and innovative. The basic idea behind the activities was to discuss various perspective of an individual and to have a better understanding of the child’s psychology.

**Session 2: Mr. A. K. Rajput and teachers from Brij Vihar, Manesar and Noida branch**

The session proceeded with few more activities to make teaching learning process more innovative.

The concept of division was explained in easy and interesting way. It was further simplified by Ms. Gunjan for the better understanding of the students.

The session concluded with a small test given by Mr. A.K.Rajput to assess the understanding of teachers and a detailed question wise analysis of it was done.



## **2. Learning outcomes (Knowledge and Information) from the workshop/Seminar?**

- Incorporating the ELPS method for effective teaching /learning amongst the learners.
- Encourage the students to ask questions.
- Preparing of Rubric for each topic.
- Portfolio of child should be prepared for continuous and comprehensive evaluation of a child.

## **3. How will you implement the knowledge & techniques acquired to your subject?**

- Arouse the element of fun and inquisitiveness among the learners.
- Encourage activity based learning and hands on experiences.
- Strive to introduce the Mathematical concepts through ELPS(Experience- Language- Picture-Symbols).
- Provide the congenial environment to the learners so that they can arrive at a conclusion on their own.
- To ensure that the teacher's role is just of a facilitator and learners should be able to explore and arrive at facts.

## **4. Comments and suggestions (How do you think the workshop/Seminar could have been made more effective?)**

- Some more activities/exercises could have been discussed for gifted and slow learners.

**5. Was the advance briefing about the workshop/Seminar appropriate?**

- Yes, it was well planned and informed so that all the participants were equipped with the required material.

	YES	/	No
<b>GENERAL FEEDBACK</b>			
• The workshop/Seminar was applicable to my job	•		
• I will recommend this workshop/Seminar for other faculty members.	•		
• The program was well paced within the allotted time.	•		
• The material was presented in an organized manner.	•		
• The resource person was a good communicator.	•		
• The resource person was knowledgeable on the topic	•		
• I would be interested in attending a follow-up, more advanced workshop / Seminar on this same subject	•		
• I will be able to conduct follow up workshop for the benefit of fellow Staff Members	•		

**Report submitted by**

**Name:** Ms. Ruchika Khanna

Ms. Arpita Singh

Ms. Anita Singh

Ms. Pooja Kapoor

**Designation:** PRT (Maths)