

## **REPORT ON CBSE WORKSHOP ON 'ICT INTEGRATION IN TEACHING OF SOCIAL SCIENCE' ON 22 MAY 2020**

Online workshop on 'ICT integration in teaching of Social Science' was conducted on 22nd May 2020 at 11:00 am to 12:20 pm. The resource person was Mrs. Indra Vijay Kumar, Principal, Nalanda International School Krishnagiri. There were around 71 participants from different schools.

The resource person began the workshop by emphasizing importance on how Information and Communication and Technology has influenced teachers in getting adopted to the new situation due to COVID-19. The resource person further discussed how ICT can improve student learning and opt better teaching methods which brings in positive impact on students' achievements. Using Hieroglyphics and deciphering the image she asked us to decode the images and introduced the workshop. She conceptualized the wheel of fortune game- how it can be used in the class to introduce / adopt concept or summarize.

Objectives of the workshop are as follows:

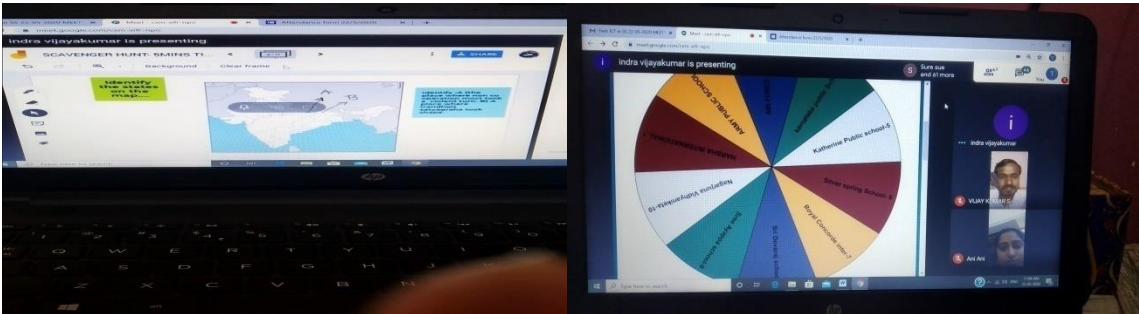
- To adopt the blended learning model.
- To incorporate online gaming strategy, to sustain the attention of the students.
- To utilize games as a tool of assessment.
- To apply graphic organizers in the teaching learning process using online links.
- To organize E- Portfolio for students and teachers.
- To create a space for virtual tour wherever it is applicable.

To create a blended learning an example of station rotation method was taught with example of Print Culture lesson with match the following, fill in the blanks and providing link or a website with critical thinking questions.

**Trending online strategy: Flipped classroom Vs Flipgrid .The teacher sends a pre reading material for the students to explore and initiates a discussion based on their findings the next day when you meet.**

**Flipgrid- the children will view the videos or read the passage and express themselves .Questions related to critical and analytical thinking should be asked.Video assessment can be recorded through this application.Online roleplays can be given the prior day with dialogues and the students can perform in the class.**

**Jamboard app can be used for games activity like scavenger hunt with a list of things to find out with limited time set,Map marking,interpreting cartoons, sticky notes for sequencing events,Super teacher tools,speed review games to make the students to understand the concepts from known to unknown like the spinner game by customizing it etc were introduced.**



**Online crossword and quiz,online circle time- to initiate a discussion giving a clue/stem.**

**E portfolio in sites .google .com wherein graphic organizers can be used where shown.**

**Teachers were asked to create space for virtual tour downloading from the you tube link and then interacting with students.**

**This workshop was interesting and effective to conduct online classes with activities which were fun filled and which in turn makes teaching learning process effective.**

**TABASUM MULLA**

**TGT SOCIAL SCIENCE**

**22-05-20**

## **REPORT ON WORKSHOP CONDUCTED BY COE CHENNAI'S ON STRESS MANAGEMENT**

On 15 May 2020 three teachers from our school ,Mrs.Anitha Roy,Mrs Savitha Goel and Mrs. Veronica ,participated in the workshop conducted by CBSE on the topic 'StressManagement', during the time slot 11.30am to 12.30pm.The reports submitted by the respective teachers are as follows.

### **प्रतिवेदन**

**दिन- शुक्रवार दिनांक- 15.5.2020**

**विषय –तनाव नियंत्रण करना**

**स्थान- ONLINE WORKSHOP BY CBSC**

**स्त्रोत कर्ता - मनिला मैडम**

1. सबसे पहले तनाव का अर्थ क्या होता है, वह हमें समझना है।

तनाव – कोई ऐसा काम जिसे हमें करने में कठिनाई अनुभव हो जिसके कारण हम घबराहट अनुभव करें, उसे तनाव कहते हैं।

तनाव दो प्रकार होता है – 1. बाहरी 2. आंतरिक

1. बाहरी तनाव – इसमें हमारे समाज और वातावरण का प्रभाव हम पर पड़ता है।
2. आंतरिक तनाव – इसमें हमारी बीमारी तथा स्वास्थ्य से संबंधित समस्याएँ आती हैं।

**लक्षण - 1. सिरदर्द**

- 2.पेट में तकलीफ रहना
3. उच्च रक्त चाप
4. छाती में दर्द अनुभव करना
5. नींद की कमी
6. बेचैनी
7. घबराहट महसूस करना

हमारा शरीर मानसिक,शारीरिक तथा भावनात्मक प्रतिक्रियाएँ करता है। छात्रों-छात्राओं को परीक्षा के समय होने वाली घबराहट एक सामान्य बात है। छात्रों को परीक्षा के समय को पढ़ाई के समय में बदलने की कोशिश करनी चाहिए। अपने आप को शांत रखने का पूरा प्रयत्न करना चाहिए। अगर छात्र- छात्राएँ रोज अभ्यास करते रहे तथा कक्षा में पूरा ध्यान लगाकर पढ़ें तो उन्हें किसी भी प्रकार का तनाव नहीं उत्पन्न नहीं होगा।

माता-पिता को भी छात्रों को अधिक पढ़ाई के क्षेत्र में अधिक जोर न देकर बच्चों के रुचि को बढ़ावा देने का प्रयत्न देना चाहिए। अपने बच्चों को न केवल डाक्टर, इंजीनियर ही बनाने का जोर न देकर अन्य क्षेत्रों की ओर प्रोत्साहित करना चाहिए।

यह कार्यशाला बहुत ही प्रेरणादायक और मन को उत्साहित करने वाला था।

धन्यवाद

अनिता राय

हिन्दी TGT

**REPORT ON ONLINE WORKSHOP HELD ON 15 MAY 2020 AT 11:30a.m. to 12:30p.m.**

CBSE Capacity Building Programme

Enhancing Life Skills –“COPING WITH STRESS”

Resource Person - Manila Carvalho (Principal DPS Bangalore EAST)

Workshop begin with a quote “It is not what you do for your children but what you have taught them to do for themselves that will make them successful human beings.”

Life is full of challenges and we have to handle them skillfully.

Following points were discussed-

- 1 STRESS – It is the body’s reaction to any change that requires an adjustment or response. The body’s reaction can be physical ,mental or emotional responses and it is a normal part of life. Stress can be experienced from our environment, our body and our thoughts.
- 2 Stress can be due to 2 factors –Internal (illness or medical procedure) ,External(environment and social situation)
- 3 SYMPTOMS- headache, stomach upset, high BP, chest pain, sleep problem, high anxiety level, depression and panic attacks.
- 4 TECHNIQUES OF RELIEF- meditation, yoga, time management, proper planning, having realistic goals, effective communication , taking breaks and resorting to help.
- 5 A video was shown on “How stress affects our brain?”

I conclude by saying that -Learning healthy ways to cope and getting the right care and support can help reduce stressful feelings and symptoms.

It was an informative session.

## **REPORT ON WORKSHOP CONDUCTED BY CoE CHENNAI'S ONLINE SESSION**

### **TRAINING SESSION ON 15<sup>TH</sup> May 2020**

#### **TOPIC:-LIFE SKILL—Stress Management**

A workshop on stress management was Conducted by CoE Chennai's Online Training Session on 15<sup>th</sup> May 15, 2020 which was attended by 300 participants coming from various school. It was my first online workshop and I felt privileged to represent Air force School Jalahalli (East) The work shop was conducted by **Ms.Manila Carvalho** Principal of DPS SCHOOL Bangalore (EAST) (Resource Person).

The workshop was divided into groups as there were large numbers of participants and due to lot of technical Issue our workshop was rescheduled at 11.30am to 12.30pm instead of 10:00.am. Coordinator **Srinidhilyer** and **Neil** coordinated the training session with the team till the end. First, brief introduction was given by **Ms. Manila** and she focused on :-

- Importance of Life skill and how it promotes positive attitudes and behavior.
- Improves communication abilities, helps in making healthy decision.
- Prevents negative qualities.
- Teaches to control anger, Increases selfesteem and self confidence.
- Improves academic performance.

Further Meaning of Stress and factor dividing stress was explained. Stress. It is the body's reaction to any change that requires an an adjustment or response, The body reacts to these changes with physical, mental or emotional responses. Stress it is a normal part of life. It is div in two factors :-

- ❖ Internal—due to illness or Medical procedure.

- ❖ External—divided into environment and social situation.

There are various symptoms of stress which teacher as well as parents should be aware of. They are headache, stomach ache, high blood pressure, chest pain, somniphobia, high anxiety level, Depression, Panic attacks. Teacher should identify children who are facing these type of symptoms, teacher should create friendly connection with kids and should not be too strict she should allow them to explore. Teacher should motivate the children always.

In later half she explained on Techniques of Relief from stress:-

- ❖ Meditation.
- ❖ Yoga.
- ❖ Time management.
- ❖ Proper Planning.
- ❖ Having realistic goals.
- ❖ Effective communication.
- ❖ Taking breaks.
- ❖ Resorting to help.

These are few techniques which teacher can follow before starting class, she can ask students to close their eyes and focus on candle flame see the colours and flame moving left and right, she even can start with yoga few breathing exercise if she has knowledge about it. Children can concentrate well and they get Relaxation.

Teachers should know how to manage time she should plan her work accordingly, Too much restriction should not be done for children they should be allow to explore themselves, children should be given enough break in between as they are not matured like us. Resource person recommended to teachers should refer Life skill books prescribed by CBSE and all School Library should have these manual books to refer.

Further she showed a short video clipping which showed how scientifically stress is connected to our brain. It showed how with one positive support of small rat entire generation of rats got saved. Thus teacher should have strong positive personality in classroom. Always to keep in mind we should be conscious of our behavior in front of kids only positive behavior should be shown, Negative behavior should be avoided in front of children. Good rapport

should be develop with our colleague, Friendly and supportive home environment is required both by school and home.

**Conclusion:** The workshop was very useful and informative it showed the major role played by teacher and parents for catering the needs of all the students. Teachers to act as role models and school to create friendly, supportive, stimulating and structured learning environment, thus, strengthening community action in schools.

Veronica John

Pre-primary Teacher AFS, Jalahalli East

Dated : 15<sup>th</sup> May 2020

### **REPORT: WORKSHPO ON INTEGRATING ICT IN TEACHING MATHEMATICS**

TOPIC: INTEGRATING ICT IN TEACHING MATHEMATICS

DATE: 04-06-2020

RESORUCE PERSON: Mrs.ANURADHA.D

The session commenced with the introduction by the Resource person Mrs. Anuradha.D. The highlights of an interactive session on “INTEGRATING ICT IN TEACHING MATHEMATICS” are summarized below:

1. The resource person started the session of workshop by emphasizing that the objective of the workshop was to identify and discuss on various ICT online tools for teaching and learning during the online classes.
2. Various ICT tools can be used at each level of teaching a topic like introduction, teaching-learning, Practice, Summarizing, revision and assessment.
3. The ICT tools are readily available in the internet and can be used during the online teaching learning process.
4. The major advantage of using ICT tools during online class is that it helps the students to understand the concepts and also engage them in an interactive way.
5. Teaching geometry requires blackboard, but during the online classes it becomes difficult for the teachers to teach geometrical and graph concepts. Both geometrical and graphing concepts can be taught using **GEOGEBRA** application.

6. During this pandemic situation it becomes difficult for the teacher to assess the students work.**PHOTOMATH** and **MICROSOFT MATH SOLVER** application can be used by the students to self-assess their work by scanning the question where immediate answer is displayed with the steps. Teachers should instruct the students to use this application to check the answer only after solving the problem.

7. Using the mind map method is the most efficient way to summarize a topic. Teachers can applications such as **POPPLT**, **MINDOMO** to create mind maps on a particular topic such as Surface area & Volume etc., formulas and share it to students for better understanding and easy recapitulation.

8. To make practice and assessment fun for the students, teachers can use **EDUCAPLAY** and **KAHOOT** application to create activity games such as riddles, crosswords, matching etc., for a particular topic and hare them to students.Creating activity games can make learning fun for students and it becomes easy for the teachers to assess how much a student has understood about a topic.

9. Teachers and students can get online resources from various websites such as [www.cbseacademia.nic.in](http://www.cbseacademia.nic.in) , diksha.gov.in, [www.ncert.nic.in](http://www.ncert.nic.in) etc.

10. Mathematics which seems to be a difficult subject can be taught in an interesting way using ICT tools so that students find the subject more interesting and easier. HAPPY LEARNING, HAPPY TEACHING.

By

Ms. Sharmi Y (TGTMaths)

#### **REPORT ON ONLINE WORKSHOP CONDUCTED BY CBSE COE CHENNAI**

TOPIC: ENHANCING PRACTICAL SKILLS AND PROJECT IN MATHEMATICS

DATE: 03-06-2020

RESORUCE PERSON: Mrs.M. RAJESWARI



The session commenced with the introduction by the Resource person. The highlights of an interactive session on “ENHANCING PRACTICAL SKILLS AND PROJECT IN MATHEMATICS” are summarized below:

1. The resource person started the session of workshop by emphasizing that teaching is an noble profession and that teaching should be a mutual learning to both students and teachers. Mathematics is the an important subject which is used in our day to day live and involves concept learning unlike the other subjects
2. The resource person briefed about the basic skills and application skills that must be developed in every student in order to solve highly complex problems in mathematics.
3. The resource person then used the Jamboard application to enable the participants to post sticky notes with an example as to how mathematics is used in our everyday lives.
4. The importance of project for students was emphasized by stating that project work encourages the students to become critical thinkers, problem solvers and independent learners.
5. The resource person discussed about various practical skills that teachers need to develop in students through projects. Some of the practical skills are Critical thinking, Problem solving, Analytical thinking, Logical arguments, Teamwork, Time management and Independence.
6. Students feel mathematics as a difficult subject so teachers have to find ways to teach them through stories, puzzles & riddles to make it interesting.
7. Various activities were conducted to show how various concepts like area or volume of geometrical figures, fractions, linear equation etc. can be taught to the students so that they discover various methods to solve a problem.
8. Activities involving craft can also be imbibed to teach certain concepts to the students.
9. Mathematics involves conceptual understanding to solve any problem and apply them in real life situation. Making the students understand the concepts through activities is very important to develop the fundamental skills in students.

By

Ms. Sharmi Y (TGT Maths)

## REPORT OF CBSE WORKSHOP ON ASSESSMENT IN PHYSICS CONDUCTED ON 05-06-2020

The online training in CBSE capacity building programme on Assessment in Physics for Senior Secondary School was conducted on 05th June 2020 [Friday] from 4.30 p.m. to 5.30 p.m. Mr. T Thavasi Mony, the Principal of Vidya Peetam, Sholinghur, Tamil Nadu conducted the meeting. 63 Teachers from various schools attended the workshop. From Air Force School, Jalahalli Mrs. Shimi Paul attended the workshop.

The workshop discussed various topics like the problems faced by Physics teachers, syllabus of XII, addition and deletion of chapters, Assessment of Physics, marking scheme, preparing blue print for the question paper etc. The workshop involved various brain storming activities like identifying revised Blooms taxonomy, answering questions in Physics through Google form etc.

The main purposes of Assessments are:

- To determine the achievement level and progress of the pupil
- to check the level of understanding
- to obtain data for diagnostic purposes
- to identify interests of children
- to identify under achievers and to uplift them
- to identify gifted children and motivate them
- to improve learning difficulties
- to determine the self concept, attitudes and personality pattern

Blue print is an advanced planning tool. It decides the weightage to different topics, type of questions, distribution of questions with aims and objectives. It ensures the content validity of the test. Teachers should be familiarized with syllabus. They should have depth and spread of content.

While preparing question paper the following points should be followed:

- o The whole range of topics should be covered.
- o Coverage should be comprehensive and well balanced.
- o Should cover significant aspects of topics and sub topics.

- o Weightage pattern should be adhered strictly both topics and number of marks.
- o Language of each answer should be simple. It should be clear cut and specific.
- o Questions with more than one answer should not be asked.
- o Maximum length of answer should be described.
- o Clear directions should be specified.
- o Abbreviations of all kinds to be avoided.
- o General instructions will be given in the beginning itself.
- o Values of physical constants required will be given at the end with proper units.
- o For problems, only SI units should be used.
- o Difficulty level should follow Maxwellian Curve.
- o No question will be asked beyond the syllabus.
- o Questions will be asked on the basis of NCERT Book Content.
- o Let the questions be clear and not ambiguous.
- o Use questions for assessing the objectives.
- o Design test items that allow students to show a range of learning.
- o Very short answer questions must have a unique answer.
- o Very short answer questions are those which have one specific response and can be marked objectively.

Guidelines for developing Short answer type questions:

- ❑ The questions should consists of the application of essential knowledge to new situations.
- ❑ Specify for students the desired length, time limits and evaluating criteria.
- ❑ The questions should be written in the linguistic level appropriate to the students.

? The questions may be set to test such abilities which cannot be easily tested by other types of questions.

? The questions should be a combination of 2-3 short answer questions.

? Total marks of short answer questions is 3

He encouraged teachers to frame questions by their own and provide children with as many questions as possible in the form of MCQs as the child is thorough with MCQs, he will be good in concepts. Teachers can also refer to Swayam prabha CBSE website for clarifications. He concluded the meeting by wishing teachers to be great rather than good.

Prepared by:

Mrs. Shimi Paul

Air Force School, Jalahalli

06-06-2020

AIR FORCE SCHOOL JALAHALLI

WORKSHOP REPORT

TOPIC- Perspective Building of Life Skills held online

DATE-26 May 2020

TIME-10.30 TO 12 PM

RESOURCE PERSON- Vasumathy Srinivasan

PARTICIPANTS-91 TO 93

1. It was a good platform to address some current issues/challenges/problems/ doubts etc. that support the stake holders to get deeper understanding on subjects and concepts. In connection with the same thought, it was also a need from School's teachers to experience such platform as they were finding out few solutions to overcome with some pedagogical implications while dealing their classes.

Empower children with skills and knowledge. Topics Carried out in life skill session

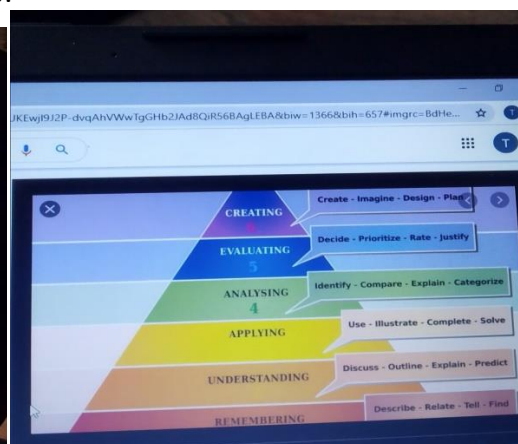
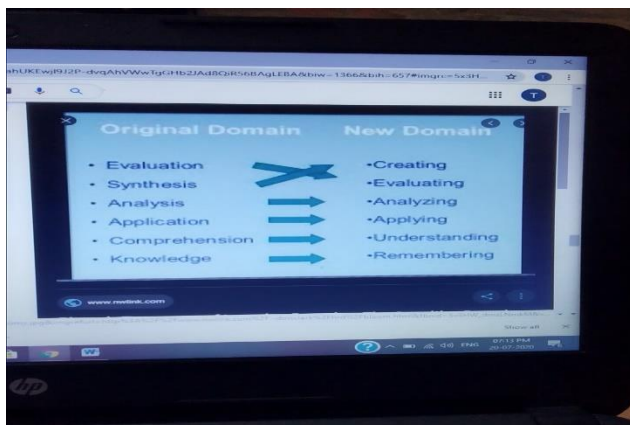
- Decision making
- Emotions and assertiveness
- Self esteem
- Creative thinking
- Critical thinking and Values

2. She started with the definition of life skill. After she explained the difference between life skill and livelihood life skill.
3. She gave one link to solve few questions related to life skills and showed one video to motivate people.
4. We used KAHOOT as she gave pin and solved the question.
5. It was informative, inspiring and motivational workshop.

Prepared by:  
Smita Jaiswal

### REPORT ON CBSE ONLINE WORKSHOP- BLOOMS TAXONOMY AND ITS APPLICATION IN SOCIAL SCIENCE

CBSE conducted an online workshop on Blooms taxonomy and its application in social science on 20th July 2020 at 4:00pm-5:00pm. The Resource person was Mini Johny. It was a very interactive session and useful for teachers to apply the knowledge which we derived from this wonderful session. This workshop focused on Blooms taxonomy and its applications. The following points were discussed in the workshop.

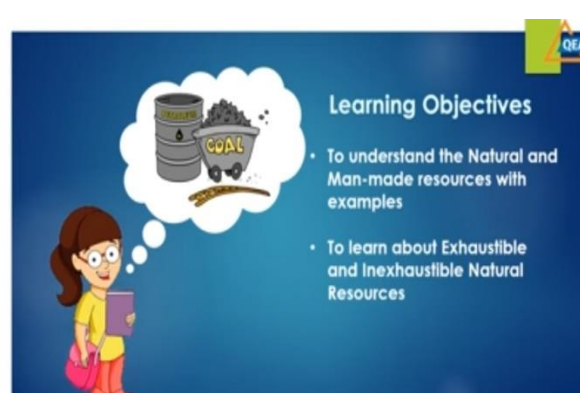


Bloom's Taxonomy is a classification of the different objectives and skills that educators set for their students (learning objectives). The taxonomy was proposed in 1956 by Benjamin Bloom, an educational psychologist at the University of Chicago. The terminology has been recently updated to include the following six levels of learning.

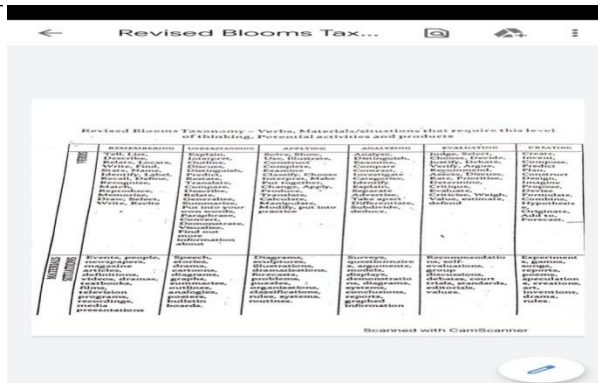
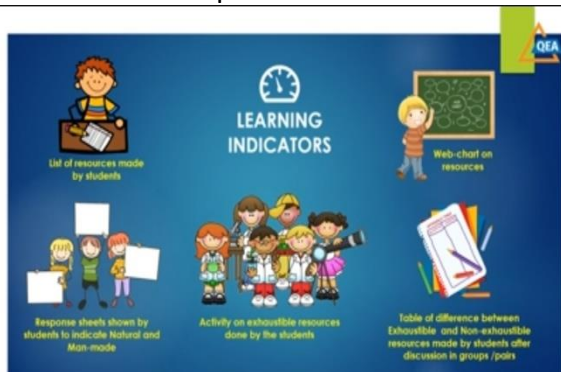


These 6 levels can be used to structure the learning objectives, lessons, and assessments of the course. :

1. **Remembering:** Retrieving, recognizing, and recalling relevant knowledge from long-term memory.
2. **Understanding:** Constructing meaning from oral, written, and graphic messages through interpreting, exemplifying, classifying, summarizing, inferring, comparing, and explaining.
3. **Applying:** Carrying out or using a procedure for executing, or implementing.
4. **Analyzing:** Breaking material into constituent parts, determining how the parts relate to one another and to an overall structure or purpose through differentiating, organizing, and attributing.
5. **Evaluating:** Making judgments based on criteria and standards through checking and critiquing.
6. **Creating:** Putting elements together to form a coherent or functional whole; reorganizing elements into a new pattern or structure through generating, planning, or producing.



Like other taxonomies, Bloom's is hierarchical, meaning that learning at the higher levels is dependent on having attained prerequisite knowledge and skills at lower levels. Bloom's Taxonomy is often displayed as a pyramid graphic to help demonstrate this hierarchy. Its now updated from pyramid into a "cake-style" hierarchy to emphasize that each level is built on a foundation of the previous levels.



This workshop was interesting and effective and makes teaching learning process effective.  
 TABASUM MULLA  
 TGT SOCIAL SCIENCE  
 20-07-2020

### REPORT ON ONLINE TRAINING SESSION IN 'ICT INTEGRATION IN TEACHING OF SOCIAL SCIENCE' ON 22 MAY 2020

N.VIJAYALAKSHMI (TGT Sst)

To initiate towards capacity building, CoE Chennai organized an online training session in 'ict integration in teaching of social science' on 22 may 2020 from 11:00 am to 12:15 pm. The resource person was Mrs. Indra Vijay kumar, Principal, Nalanda International School Krishnagiri. There were around 71 participants. She introduced the workshop as how ICT can improve student learning and better teaching methods, which brings in positive impact on students' achievements.

Using Hieroglyphics and deciphering the image she asked us to decode the images and introduced the workshop. She conceptualized the wheel of fortune game- how it can be used in the class to introduce / adopt concept or summarize.

The objectives of the workshop was to:

- To adopt the blended learning model.
- To incorporate online gaming strategy, to sustain the attention of the students.
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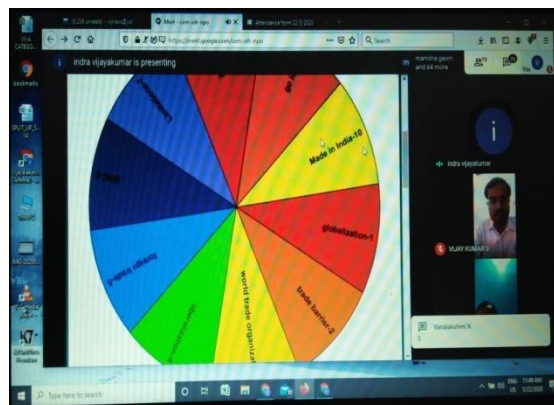
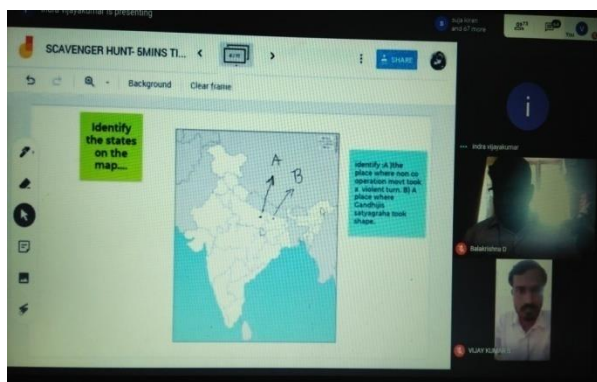
Flipgrid the children will view the videos or read the passage and express themselves .Questions related to critical and analytical thinking should be asked.Video assessment can be recorded through this application.Online roleplays can be given the prior day with dialogues and the students can perform in the class.

Jamboard app can be used for games activity like scavenger hunt with a list of things to find out with limited time set, Map marking, interpreting cartoons, sticky notes for sequencing events, Super teacher tools, speed review games to make the students to understand the concepts from known to unknown like the spinner game by customizing it etc were introduced.

Online crossword and quiz, online circle time- to initiate a discussion giving a clue/stem.

E portfolio in sites .google .com wherein graphic organizers can be used where shown. Teachers were asked to create space for virtual tour downloading from the you tube link and then interacting with students.

The workshop was interesting and effective to conduct online classes .and can be incorporated in teaching learning process.



## **REPORT ON WORKSHOP CONDUCTED BY AIR FORCE SCHOOL JORHAT**

**DATE:30.05.2020**

**TOPIC: PARADIGM SHIFT IN SCHOOL EDUCATION @ PANDEMIC**

**RESOURCE PERSON: Mrs. .ANUBHUTI MEHTA**

- 1.Paradigm shift in school education during COVID 19 .
- 2.Teachers are used for particular pattern of teaching or particular style of teaching, now it is time to change our mindset or else we will be not able to face consequences.



3. Teacher has to change to virtual teaching, make your class more interesting, blend it with attractions and other videos.
  4. Both parents and teachers should be aware of all digital cadets, high internet speed and digital content.
  5. Ideal classroom should maintain quality, mindmaps, stimulations, slides, use content of Microsoft,
  6. Use National digital library its videos and stimulations.
  7. NCERT DISHA APP is also can be blend in your class room.
  8. There are free 12 educational channels that can be used by children but it only one way of learning'
  9. Teacher should develop creative, innovative and informative class.
  10. There 36 Air force schools ,all can share their creative work.
  11. The learning outcome of students to be assessed, by multiple Assessments ,test and exams.
  12. Even school management can learn management system, it helps school for collecting fees collecting student data and attendance,
  13. At home child has to face many challenges, the child learns to share things with his family .They should learn to share things with grand parents they under go a lot of emotional stress. The child's emotions should be taken care. Parents should conduct some physical activity.
  14. The conducting classes after reopen of school is challenging because maintaining social distancing is big task with lesser number of children.
  15. PTM should conduct on google meet
  16. Do not prepare the child for difficult ROAD but prepare the child to face for difficult. ROAD. Let the child learn on it own. These were concluding STATEMENTS By Mrs, Anubhati Mehta.
- By  
NOOR SULTANA TGT (maths)

## **REPORT ON WEBINAR :TECHNOLOGY IN SCHOOLS**

DATE-30-06-20

RESOURCE PERSON: SREEVALSAN M-Head of the IT Dept., Amrita Vishwa Vidyapeedam

CONDUCTED BY : AMRITA VISHWA VIDYAPEETHAM

Time: 4:00 PM

1. There are many new technologies being used in remote classrooms today: Google, Microsoft, WebEx, Zoom. All are good platform for online classes.  
The uses of technology is of different purposes-
2. Enhance quality, Increase efficiency, Instill Professionalism, Increase Productivity.  
When we embrace technology--Good knowledge of the domain. What are the challenges we face now? Innovate and enhance the process. Can I adopt technology? If so how much?  
Technology is trying to solve those challenges and take it to more productive.
2. Stake Holders of school: administration, Teachers and Students. There are many ways in which we can benefit from the new technologies being developed today.
3. This e-learning teaching method should have started before apart from this pandemic period.
4. We need good knowledge of the domain is needed in the current covid-19 crisis. He explained how technology can being incorporated to ensure teaching and learning "now" and "before".

4. Teacher collaboration occurs when members of a learning community work together to increase student learning and achievement. ... Collaboration is not a task to complete then move on, it's an ever-changing, ongoing process that is only enhanced by social networks and access to new technology.

To engage students, support student learning, and provide informative feedback for ongoing teacher assessment.

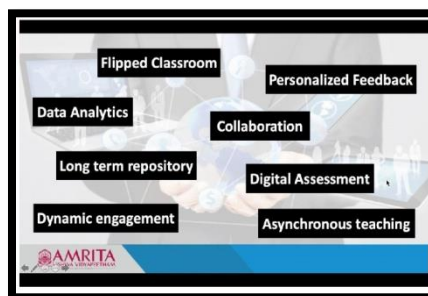
- Quizzes. ...
- Fill-in-the-Blank...
- Matching Questions. ...
- Forum Post. ...
- Peer Evaluation and Review. ...
- Poll/Quiz results in real time. ...

5. The digital divide refers to the inequality in access to technology that exists between communities due to regional and demographic differences, particularly socio-economic groups, challenges that could be faced in the process of adopting technology for schools were knowledge, budget, connectivity and security.

6. Teachers use computers to keep track of their students, check on their work, and make grading them easier and more transparent.

7. Assessment to be made in such a way that children think themselves and write the answer.

8. Poll was conducted to get the percentage of teachers ready to take up the challenge and emphasize the technology for e-learning to enhance the quality of teaching and learning..



Report By  
Asha-TGT Computer Science

**REPORT : WORKSHOP ON ENHANCING PRACTICAL SKILLS & PROJECTS IN MATHEMATICS**  
VENUE: ONLINE  
TEACHER: GEETA KUMARI  
DATE: 3.6.2020  
RESOURCE PERSON: RAJESHWARI MUTHU

The session commenced with a brief presentation by the resource person RAJESHWARI MUTHU. Aiming to provide an intense training on ENHANCING PRACTICAL SKILLS & PROJECTS IN MATHEMATICS organized by capacity building program COE Chennai.

1. Resource person RAJESHWARI MUTHU said "teacher is a Nobel profession. So for a teacher there is a strong need of relearning how to teach the new generation students in this highly technological world. Teachers in this liquid society must be 'a meddler in the middle' and the process of teaching is mutual learning for both teachers and students. We should move from the attitude of 'I do, you do' to an effective and inclusive approach of 'we do'."
2. The old-school model of passively learning facts and reciting them out of context is no longer sufficient to prepare students to survive in today's world. Solving highly complex problems requires that students have both fundamental skills (reading, writing, and math) and 21st century skills (teamwork, problem solving, research gathering, time management, information synthesizing, utilizing high tech tools). With this combination of skills, students become directors and managers of their learning process, guided and mentored by a skilled teacher.
3. One of the major advantages of project work is that it encourages student to become independent workers, critical thinkers, and lifelong learners
4. Slower learners should always given preference to learn easy topic in mathematics.
5. Values of learning Mathematics.
6. She also discussed students feel Mathematics as a difficult subject.
7. Ways and means to make Mathematics easy and interesting.
8. Making Mathematics easy & interesting through stories, Puzzles & Riddles, short cut and easy techniques.
9. It was emphasized that topics should be taught using Heuristic Method so that the student should discover various methods by inductive approach.
10. The workshop was basically designed to bring all India mathematics teachers on a single platform and share the information on enhancing practical skills & projects in mathematics.



## **WORKSHOP REPORT ON GENDER SENSITIVITY COE CHENNAI**

Date: 11th May 2020.

Topic: Gender Sensitivity.

Participants: Principals and HM&teachers from various CBSE schools Karnataka.

Resource Person: Dr. Mahesh K Principal Edify School Bangalore.

AnonlineCBSE workshop on Gender Sensitivity COE CHENNAI was organised on 11th May 2020 BY Dr. Mahesh K Principal Edify School Bangalore. Sixty seven teachers from different CBSE schools around Karnataka were invited to participate in the workshop. The session started with a discussion on 'Gender Construct'. According to the World Health Organization, sex is biological and universal, but gender is a social construct that varies from society to society. The training programme aimed to equip teachers with knowledge, skills, attitudes and methodologies to help them promote gender equality better in the classroom. Several practices that could be incorporated into the curriculum were highlighted. The resource persons suggested regular reinforcement for better sensitisation.

### **Gender Sensitive Classrooms**

Classrooms need to be gender sensitive. We have to take care of few do's and don'ts for making classroom interaction gender sensitive.

1. Encourage both males and females to be class leaders (perhaps one of each sex). Appoint two monitors in each classroom, a boy and a girl
2. Address and call on girls and boys equally. Do not segregate boys and girls in the classroom in primary classes
3. Make mixes groups for group activities and games
4. Try to 'switch role' for breaking down gender barriers and stereotyping of gender roles.
5. Make both boys and girls share activities like cleaning, moving furniture, to the chalkboard during a lesson.
6. Plan and conduct activities that give opportunity to all children accepting one another as equals.

Education, which is gender sensitive, benefits members of both sexes. It helps them determine which assumptions are valid and which are stereotyped generalisations. It is important as, through it one can build a society that is rich in values and provides equal opportunities to both males and females.

The workshop emphasized on the practical knows how about dealing with stereotyped generalisations. All the information was imparted in the form of PPT presentation, videos and discussions.

Madhumita Bose  
TGT HWT  
AIR FORCE SCHOOL JALAHALL  
BANGALORE-14  
WORK SHOPREPORT

Date:16/05/2020

### **Topic;DEVELOPING LIFE SKILLS TO STAY A STEP AHEAD**

Organised By: AIR Force SchoolASTEMurugeshPalya.

Resource Person: Ms. NeeruAttri.

97 teachers from different Air force Schools participated in Online LifeSkills Workshop by the Resource Person Ms. Neeru Attri. certified counsellor NCERT on 16 May 2020 organised by AIR

Force School ASTE, on the topic: DEVELOPING LIFE SKILLS TO STAY A STEP AHEAD, Representing Air Force School Jalahalli, Mrs Madhumita Bose from TGT participated in it. The workshop was very useful where 10 different life skills were discussed. They are Self Awareness, Empathy, Critical thinking, Creative thinking, Decision making, Problem Solving, Effective communication, Interpersonal relationship, Coping with Stress and Coping with Emotions. The workshop was relevant to the current problems teachers face in school and class room. The activities kept participants attentive motivated and honed comprehension and communication skills. A discussion on ways to annoy a teacher added more fun to the workshop. It was indeed an excellent workshop. A discussion on how do we handle disrespectful attitude of students added more fun to the workshop. As a teacher air our problems with others and taught to look for the solutions. We are indebted to impart the new role of a teacher instead of Ctrl + Alt + Del make use the technique of Keep + calm + Press on children. At the end of the session all were clear with the concept of life skill which is "make every period a different period with effective communication skill by not taking the profession as granted".

SUBMITTED BY;

MRS. MADHUMITA BOSE

TGT HWT

16/05/2020

कक्षाओं में दुर्यवहार से निपटने पर प्रतिवेदन

दि. 05/06/2020 को ऑनलाइन सत्र के माध्यम से विशेषज्ञ (संसाधन व्यक्ति) प्राचार्य श्रीमती लक्ष्मी प्रभा महोदया द्वारा 3.00PM-4.00PM तक कक्षाओं में दुर्यवहार से निपटने पर कार्यशाला का आयोजन किया गया। ऑनलाइन संचार सत्र कार्यशाला में अलग-अलग विद्यालयों के कुल 80 शिक्षक और शिक्षिकाएँ उपस्थित थे।

प्राचार्य महोदया ने उपर्युक्त प्रकरण पर अलग-अलग वीडियो दिखाते हुए विभिन्न प्रकार के संचार व्याख्यान दिए। वहाँ उपस्थित सभी शिक्षक और शिक्षिकाएँ अत्यंत उत्साहित थे। प्राचार्य ने दुर्यवहार की परिभाषा, कारण- (i) मनोवैज्ञानिक (ii) वातावरण संबंधी (iii) जैविक संबंधी कारण के बारे में बताते हुए शिक्षक के दृष्टिकोण योजना, कक्षा के नियम, अनुशासन, संबोधन के लिए अपनी शैली को संभालने की योजना, विभिन्न परिस्थितियों में अलग एवं नवीन कार्यों तथा गतिविधियों के द्वारा प्रोत्साहन देते हुए विद्यार्थियों की कक्षा में रुचि जागृत करना एवं सुदृढ़ीकरण पाठ योजना के द्वारा पाठ्यक्रम पूर्ण करने की शैली अपनाने के तरीके ऑनलाइन सत्र कार्यशाला के माध्यम से व्यक्त की। विशेषज्ञ महोदया ने कक्षा को प्रभावी बनाने और बच्चों के पाठ्यक्रम पर ध्यान केंद्रित करने और उत्साहित करने के अनेक उदाहरण एवं स्पष्ट व्याख्यान दिए।

अन्ततः प्रभावीपूर्ण व्याख्यान और गतिविधियों द्वारा कक्षा में दुर्यवहार से निपटने पर ऑनलाइन सत्र के माध्यम से संप्रेषित कार्यशाला का समापन किया गया।

नीलम सिन्हा

दि.: 05/06/2020



#### REPORT ON WORKSHOP CONDUCTED

BY CAPACITY BUILDING PROGRAM COE CHENNAI

DATE: 05.06.2020

TOPIC: INNOVATIVE PEDAGOGY EXPERIENTIAL LEARNING IN MATHEMATICS

RESOURCE PERSON: Mrs. RAJESWARI MUTHU

1. The workshop was started with Quote of "Mahatma Gandhi"

Knowledge gained through experience is far superior and many times more useful than bookish knowledge.

2. She says experienced seniors in an institution are more knowledgeable than bookish knowledge. The management should make use of it

3. She also says "Nobody is superior, nobody is inferior, but nobody is equal either. People are simply unique, incomparable".

4. She quotes Confucius saying "I Hear and I Forget. I See and I Remember. I Do and I Understand.

5. Experiential learning takes place when learners gain knowledge through their reflections based on daily experiences.

6. She gave example of how babies learn to talk, walk with their own mistakes and Experiences. In same way learning to ride a bike is also has its own unique experience and learning cooking also has its experiences.

7. Learning cycle is endless, it is recurring cycle, it is impression and expression.

8. She also talk about "KOLB'S CYCLE OF LEARNING" "The simplicity and usefulness of the four stages of Experiencing, Reflection. Thinking and Acting is the main reason for its popularity. It is a adaptable template for educational progress actively engage learners in the learning process.

9. A documentary related to Mathematics integrated with other subjects was shown, how one school in Morocco is using a grove of olive trees planted in their school to teach students about Mathematics. The students take care of trees, harvest the oil, visit the camel driven olive gridding stone and sell the resulting oil in their local market, all using mathematics.

This kind of project help children develop positive relationships with school and its natural environment .This project is also Collaborative, Interdisciplinary, Experiential and Integration of Arts.

NOOR SULTANA  
TGT MATHS

#### REPORT ON WEBINAR TECHNOLOGY IN SCHOOLS

The workshop was held on 30-06-20 on the topic, Technology in Schools.The workshop was conducted by AMRITA VISHWA VIDYAPEETHAM.

The resource person was Mr.Sreevalsan M. who's the head of IT Dept.,Amrita Vishwa Vidyapeedam.

He started with what is Technology where he told about the dictionary meaning which is "the application of scientific knowledge for practical purposes".

He spoke about how Technology can be useful to improve the teaching methodologies:

He also said that advancement of technology should have started before this Pandemic.We should have been using Technology to improve our education system.

He took example of Sound Engineering to explain how technology has improved from what it was to what it is now.

He also spoke about how Teaching and learning is an ongoing process that enhances knowledge.

To engage students and to understand if they have understood or not using technology can be done by giving them:

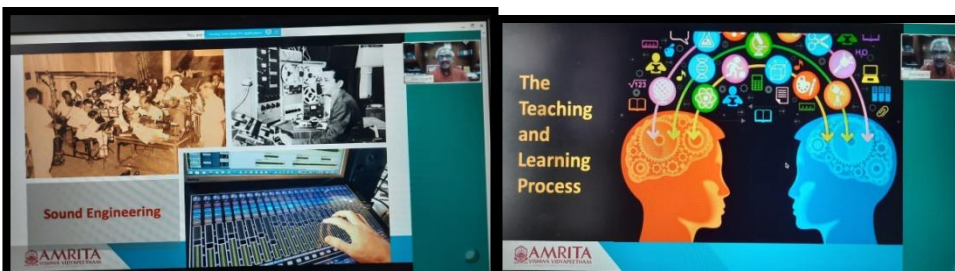
- Quizzes
- Fill-in-the-Blank
- Matching Questions
- Forum Post
- Poll/Quiz during the lecture

Teacher should use computers to assign marks to students, and make grading them easier using various platforms that are available.

He also resolved a problem that other participants had that students copy the answers?

He said that we can frame questions in a way that enhances the thinking of the student by giving them more logical questions which are not available in books or internet.

He himself used Poll to assess teachers who were ready to embrace and emphasize the use of technology for e-learning to enhance the quality of teaching with or without Covid-19.



Report By  
Raminder Kaur-TGT MATHS.

## **REPORT : WORKSHOP ON INNOVATIVE TEACHING OF MATHEMATICS**

VENUE: ONLINE

TEACHER: GEETA KUMARI

DATE: 26.7.2020

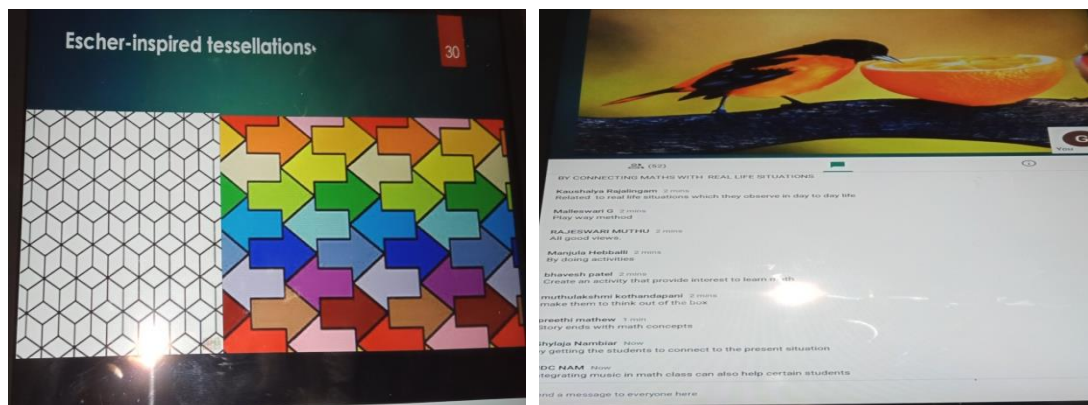
RESOURCE PERSON: RAJESHWARI MUTHU

The session commenced with a brief presentation by the resource person RAJESHWARI MUTHU. Aiming to provide an intense training on INNOVATIVE TEACHING OF MATHEMATICS organized by capacity building program COE Chennai.

1. Resource person RAJESHWARI MUTHU said “teacher is a Nobel profession. So for a teacher there is a strong need of relearning how to teach the new generation students in this highly technological world. Teachers in this liquid society must be ‘a meddler in the middle’ and the process of teaching is mutual learning for both teachers and students. We should move from the attitude of ‘I do, you do’ to an effective and inclusive approach of ‘we do’.”
2. The old-school model of passively learning facts and reciting them out of context is no longer sufficient to prepare students to survive in today's world. Solving highly complex problems requires that students have both fundamental skills (reading, writing, and math) and 21st century skills (teamwork, problem solving, research gathering, time management, information synthesizing, utilizing high tech tools). With this combination of skills, students become directors and managers of their learning process, guided and mentored by a skilled teacher.
3. Make students mathematize so that they can able to guess all quantities what ever they are using in life
4. Try to answer all kind of question either it is logical or not to create interest in maths .
5. Involve the students in making cube cylinder etc by origami.
6. Tell them stories and ask them to frame question based on that topic.
7. Co-relate the topic with different life situation.
8. Conduct an activity which make them to think out of box.
9. Making Mathematics easy & interesting through stories, Puzzles & Riddles, short cut and easy techniques.
10. Give task oriented problem solving.



11. Share useful links from YouTube related to math topic.
12. Augmented reality (AR) refers to a simple combination of real and virtual (computer generated) world, given a real subject, captured on video and the technology augments that real world image. Is most helpful in virtual class
- 13.. The workshop was basically designed to bring all India mathematics teachers on a single platform and share the information on innovative teaching of in mathematics.



### REPORT : WEBINAR ON 3030STEM

VENUE: ONLINE

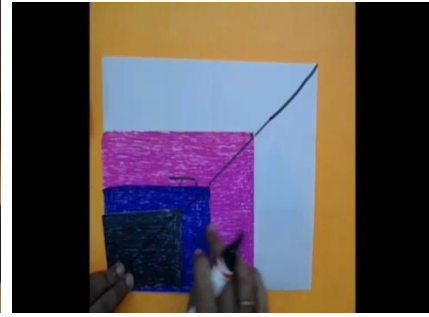
TEACHER: GEETA KUMARI

DATE: 16.8.2020

RESOURCE PERSON: MANISH JAIN

The session commenced with a brief presentation by the resource person MANISH JAIN  
Following thing he discussed.

1. Conduct an activity which make them to think out of box.
2. Co-relate the topic with different life situation.
3. He discussed various thing related to A4 size paper.
  - a) Out of various dimension why the whole world is using A4 size paper because of its unique ratio between length n breadth.
  - b) He solved various question related to use of A4 size paper.
  - c) He discussed special dimension of A4 size paper 297X210 because when we take ratio of length and breadth we will get 1.414
  - d) How from A4 size paper area can be change in longest perimeter.
  - e) What will be the effect on area when side will be doubled.
  - f) He discussed how we can make square from A4 size paper and using left over paper which also called silver rectangle we can make various octagonal designs.



## REPORT ON ART INTEGRATION IN MATHEMATICS.

The workshop was conducted by Mrs. Rajeswari Muthu on the topic ART INTEGRATION IN MATHEMATICS on 4th of June 2020.

She explained how art can be useful to the students. It not only enhances the creativity of the students, but also improves thinking skills and the skills to invent new things.

She took examples of various art forms that are build already which are done using different mathematical concepts.

For eg. The Mandala Art uses circles and creates such beautiful designs. These activities can be integrated while teaching Circles in class 10 to engage students in interesting activities on the topic so that they understand the concept of Circles interestingly.

She explained how we can integrate dance with trigonometry.

She had shown a video from youtube to how do make design using circles which is Mandalav Art form. She also told to integrate maths and stories by using different shapes.

She also touched on how showing different monuments which were made using different mathematical topics like symmetry can make students more creative to think and build such things in future.

It was an informative and creative session. We can build the ideas and implement it in Mathematics.

REPORT BY:

RAMINDER KAUR-TGT MATHS.



## REPORT ON CBSE WORKSHOP CONDUCTED ON 23-08-2020

CBSE in collaboration with CCL IIT Gandhinagar and IISER Pune is starting 30-30 STEM this Sunday (16th August) with the A4 sheet. The first session was a journey about A4 sheets, the most used paper in the world. The main aim of the workshop was to unlock the magic or beauty of learning mathematics by creating interest in children. Topic of demonstration was Paper. Maths and Science 30-30 STEM : An online program focusing on basic conceptual understanding and critical thinking of Mathematics & Science in collaboration with IISER Pune.

In the second session Dr. Manish Jain, had shown different activities related to inhalation and exhalation. In the beginning he collected residual volume of air from lungs after a deep breath in inside a cylindrical plastic cover. He explained the ways to measure this air by different ways like gas laws, by measuring the expelled water from a container or by the equation.

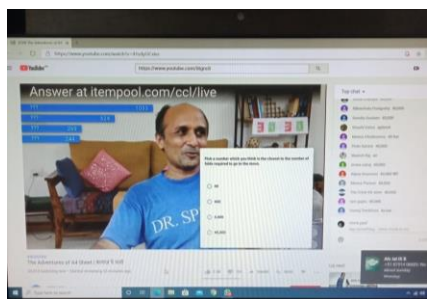
Later he discussed about the gas present in maximum quantity in the exhaled air. Since nitrogen is present in 78% of air, it will be present in maximum quantity. He also discussed the importance of reducing the level of carbon dioxide in air.

The gas exchange in lungs happen by diffusion of gases between capillaries and alveoli. More the surface area, more the diffusion is. He related the total surface area of lungs is equal to the area of a badminton court and total length is equal to 25 Km.

He has shown one experiment to show the harmful effects of smoking using a syringe and some glass tubes. One cigarette smoke is enough to paint half of the badminton course. This experiment is a must to include in the curriculum as it shows the harmful effects of smoking. He discussed about the buoyant force.

The activities create fun and excitement in children that will in turn develop the interest in learning Maths and Science. At the end of his video he has shown one toy that can be used as a whistle, sprayer and centrifugal movement of water

After all, the session was an interesting and mind blowing one. Many of his ideas can be utilized in classes for making Science interesting and interactive.



Submitted by

Shimi Paul

TGT Science

## **REPORT : WEBINAR ON 3030STEM**

**VENUE: ONLINE**

**TEACHER: GEETA KUMARI**

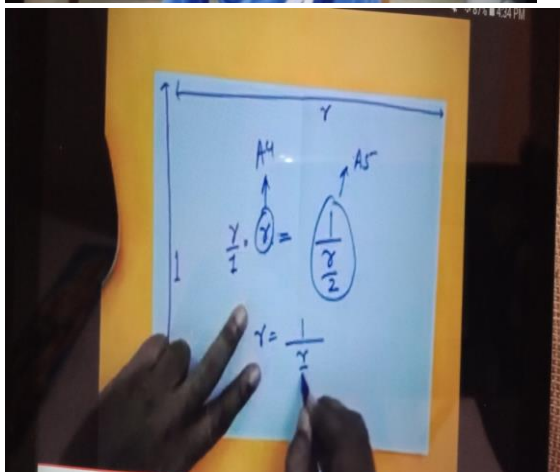
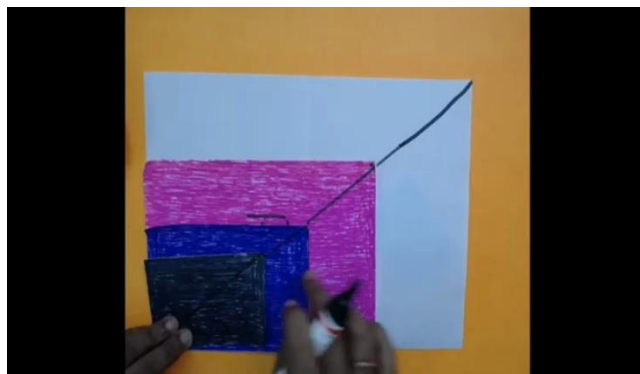
**DATE: 16.8.2020**

**RESOURCE PERSON: MANISH JAIN**

The session commenced with a brief presentation by the resource person MANISH JAIN

Following thing he discussed.

1. Conduct an activity which make them to think out of box.
2. Co-relate the topic with different life situation.
3. He discussed various thing related to A4 size paper.
  - a) Out of various dimension why the whole world is using A4 size paper because of its unique ratio between length n breadth.
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  - e) What will be the effect on area when side will be doubled.
  - f) He discussed how we can make square from A4 size paper and using left over paper which also called silver rectangle we can make various octagonal designs.



## REPORT ON WORKSHOP - Essentials of a Lesson Plan in Science

The online CBSE training in Capacity Building Program on Essentials of a Lesson Plan in Science conducted on the 16th October 2020 [Friday] from 1.30 p.m. to 2.45.p.m. The meeting was conducted by Thavasi Moni on behalf of CBSE CoE Chennai. The workshop was based on the importance of lesson plan in teaching learning process.

He started the session with a quoting of Dr. A.P.J. Abdul Kalam about Science-“Science is global. .Einstein’s equation,  $E= mc^2$ , has to reach everywhere. Science is a beautiful gift to humanity, we should not distort it. Science does not differentiate between multiple races”. Everyday not only brings with it sunshine but also lots of opportunities to learn and explore.

The workshop include the following parts:

1. Components of lesson plan/ unit plan
2. Preparation of Unit plan in Physics, Chemistry and Biology

3. Preparation of Lesson plan in Physics, Chemistry and Biology
4. Elaborate the principles of teaching and learning.

The main aim for writing lesson plan are to:

1. Who am I teaching?
2. What am I teaching?
3. How will I teach it?
4. How will I know if the student understand?

A lesson plan should help us

To write learning objectives

To plan curriculum

To align objectives to assessment techniques and standards

To facilitate permanent acquisition of learning

To help students develop higher thinking skills.



The workshop was very informative. It gave an idea about the importance of lesson plan in teaching learning process.



Submitted by Shimi Paul

TGT Science

### REPORT ON CBSE WORKSHOP CONDUCTED ON 8-11-2020

CBSE in collaboration with CCL IIT Gandhinagar and IISER Pune 30-30 STEM was based on computation skill. The main aim of the workshop was to unlock the magic or beauty of learning mathematics by creating interest in children. Maths 30-30 STEM : An online program focusing on basic conceptual understanding and critical thinking of Mathematics & Science in collaboration with IISER Pune.

In the session Dr. Manish Jain, had shown different activities to teach problems related to mathematics. The activities create fun and excitement in children that will in turn develop the interest in learning maths. This week's episode 13 theme was "**Science of Diwali Lamps**" delivered from **2:30 to 3:30 PM, Sunday, 8th November 2020.**

**Material for the Session:** Dough, skewer sticks (kebab sticks), glue, stapler, ice cream sticks, chart paper, value tube, copper wire and scissors ready for the session.

In this session, he discussed about 3-D structures which we can use to make Diwali lantern. Sum of all external angles in a 2-D polygon is  $360^\circ$  and the strongest 2-D structure in nature is triangle and 3-D structure is a triangular pyramid made with triangle as the faces. By joining three triangles we can make four triangles. He explained why Egyptians build square pyramids than a triangular pyramid even though it is stronger square pyramids have double volume than the volume of triangular pyramids. Using three triangles Buckminster Fuller gave a big thought to Indira Gandhi that Group thought is bigger than individual thought. He later discussed the number of vertices in football.

At the end of his video he has shown some photos shared by the participants during his session. He discussed about the mails received on appreciation of the 30-30 stem program. At the end of the session he gave the home work as usual.

After all, the session on the computational skill was an interesting and mind blowing one. Many of his ideas can be utilized in classes for making mathematics interesting and interactive. **3030 STEM** program designed to unlock the beauty, magic, and mysteries of Math/Science around us.



Submitted by Shimi Paul

TGT Science

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