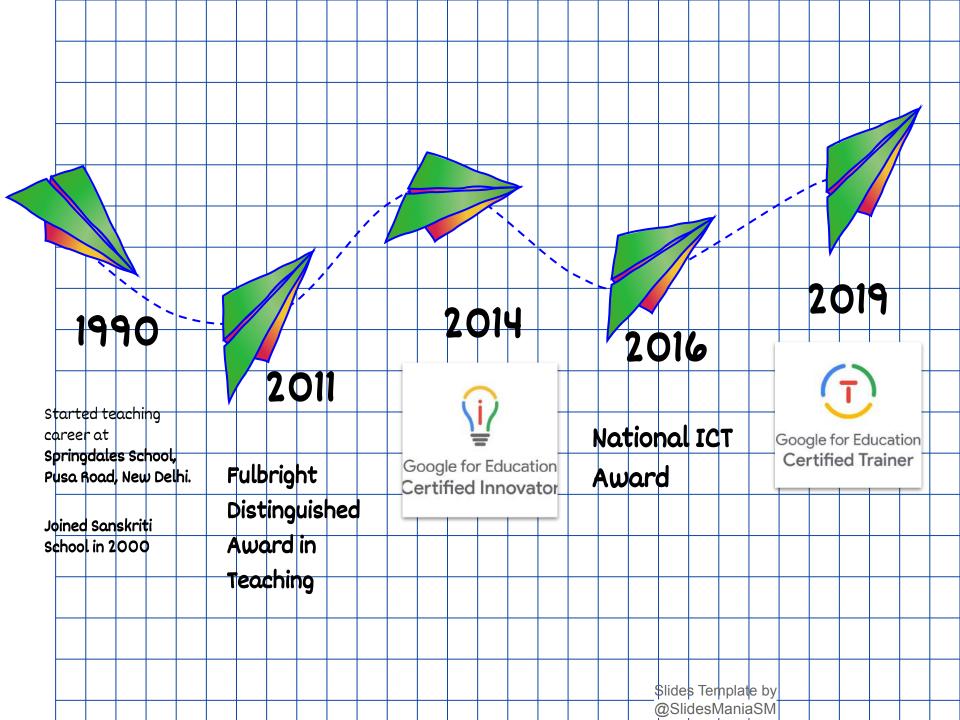
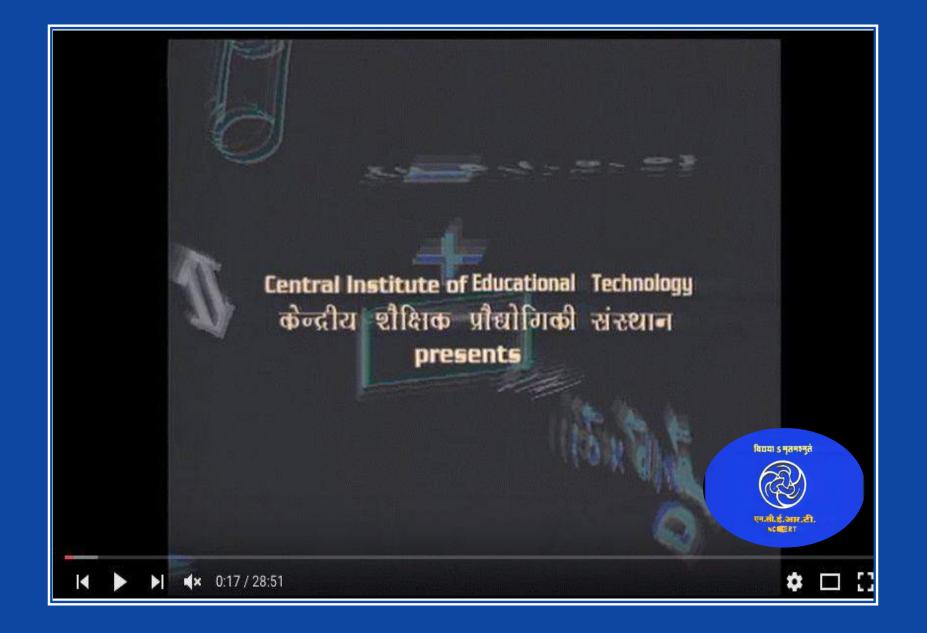


Sangeeta Gulati Head, Department of Mathematics

Head, Department of Mathematics Sanskriti School New Delhi,India From a Teacher to an Innovator & Trainer - My Journey







Lessons telecast on National Channel- Gyan Darshan

30

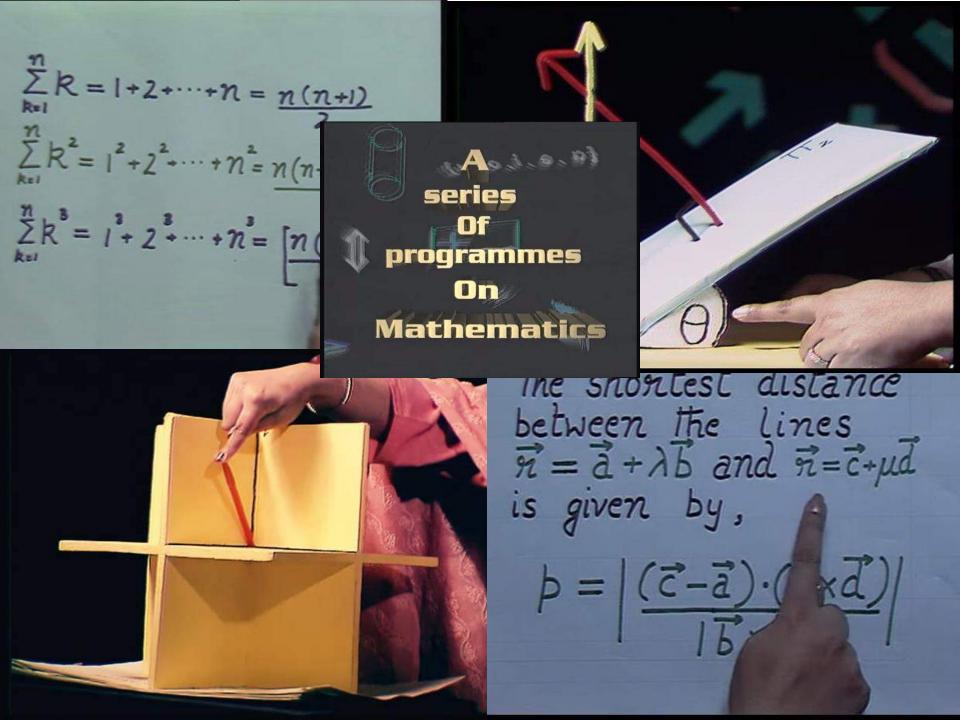
Teaching Integral Calculus- GYAN DARSHAN Program recorded at CIET in 1997, Picture taken in Dec 2013

OTAL

10

30

100



If two dice are rolled what is the probability of getting a sum of 7 ?



What is the probability of getting a sum of 7 given that one die shows a 5 ?

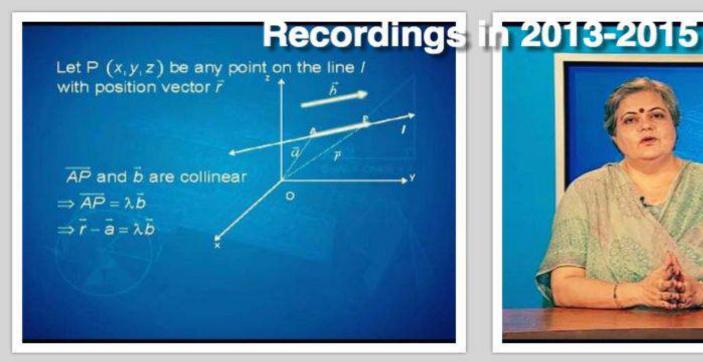


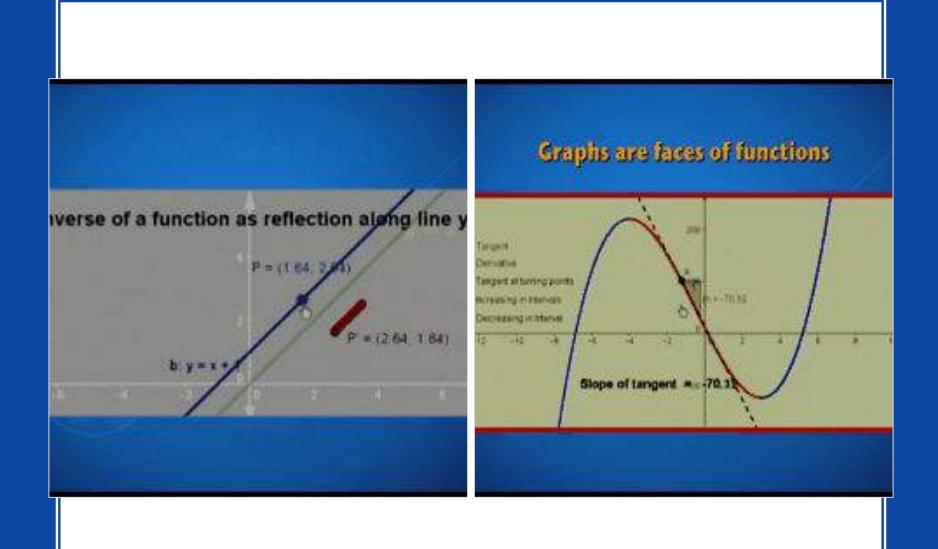
Sample space has 11 outcomes

{(1,5), (2,5), (3,5), (4,5), (5,5), (6,5), (5,1), (5,2), (5,3), (5,4), (5,6)}

 \therefore $(n+1)^{n}$ term is the middle term. $T_{r+1} = {}^{2n}C_r (1)^{2n-r} x^r$ $\frac{1.3.5...(2n-1)}{n!}.2^{n}$ $\Rightarrow T_{n+1} = {}^{2n}C_n x^n = \frac{2n!}{n!n!} x^n$ $=\frac{2n(2n-1)(2n-2)(2n-3)(2n-4)...4.3.2.1}{n!n!}x^{n}$ $= \frac{[2n(2n-2)(2n-4)...4.2][(2n-1).(2n-3).(2n-5)...3.1]}{n!n!}x^{n}$

Probability







Technology in My Classroom -a new beginning!





Presenting Geometric Wonders at IIT Powai in 2008

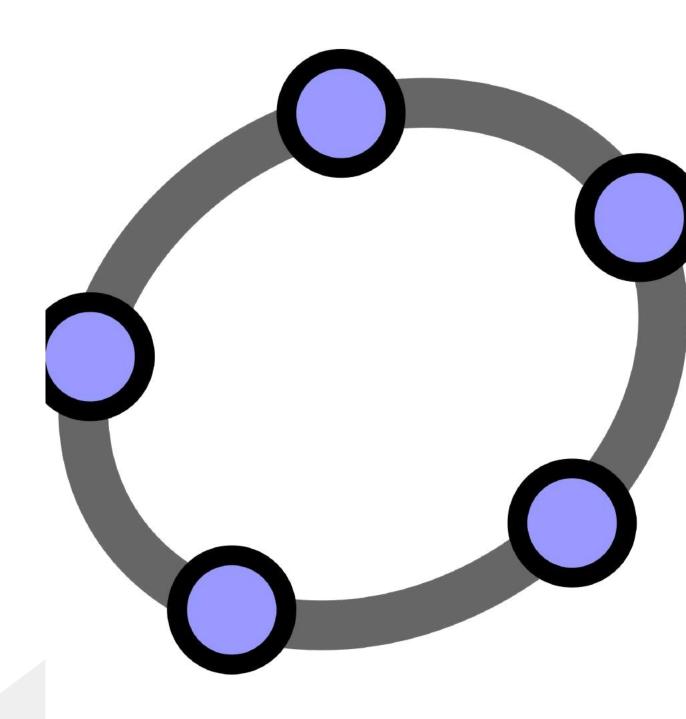
I MEASURE **TECHNOLOGY** USE. NOT BY HOW **COOL IT IS, BUT BY HOW WELL IT** HELPS MY STUDENTS LEARN

My Strategy

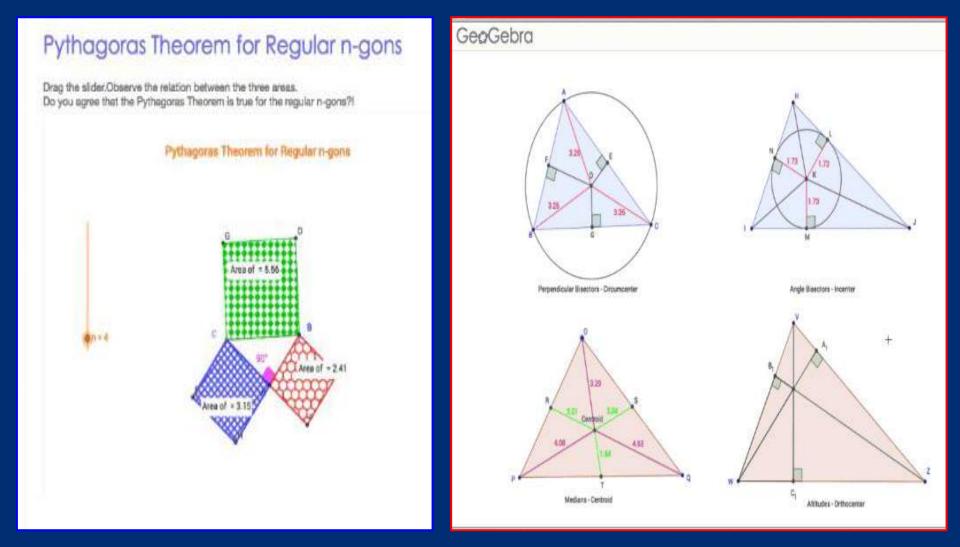
ICT is used to Experience mathematical concepts in exciting ways to practice and test new

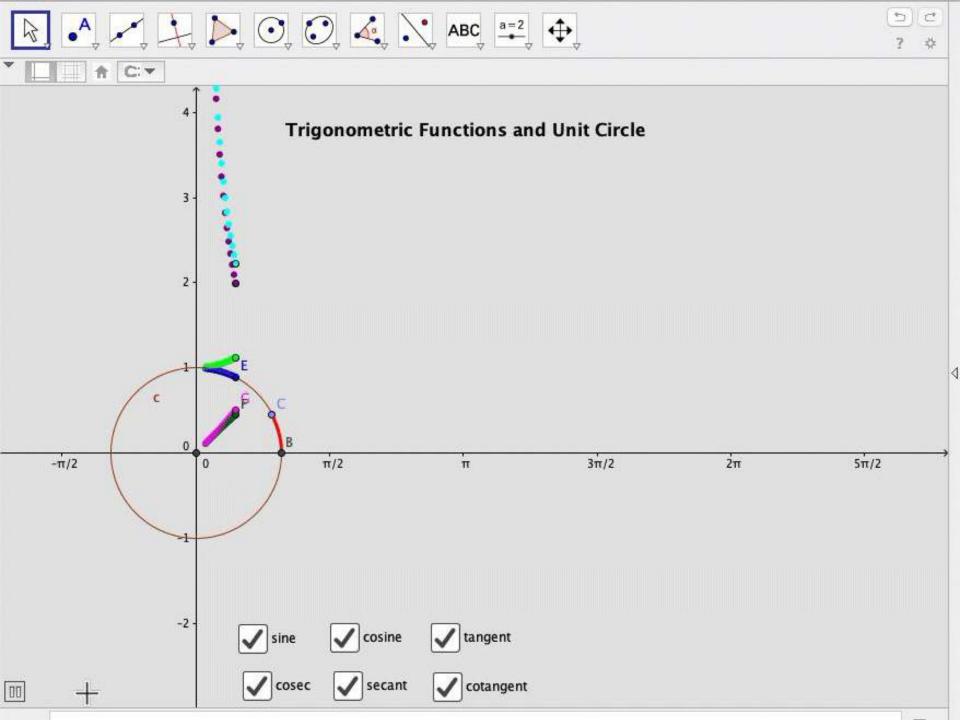
- to practice and test new material
- stay connected and extend school hours to 24x7

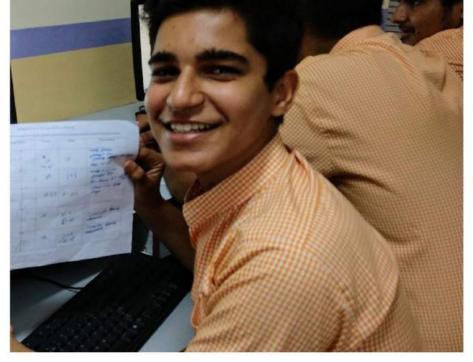
The Game Changer-an Open Source Software



Maths Comes Alive With GeoGebra









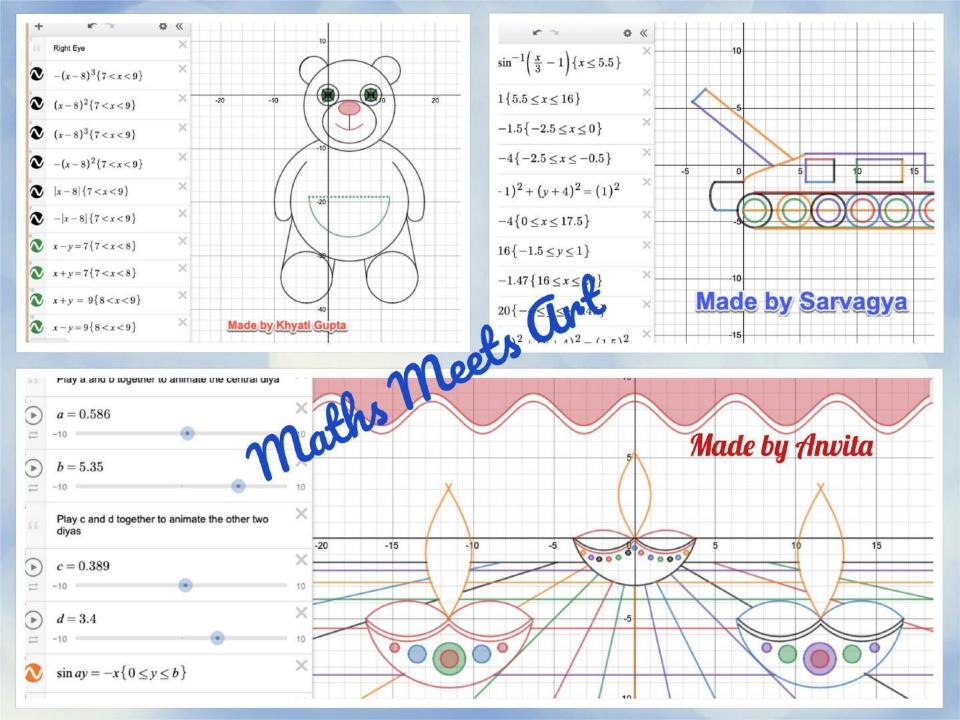


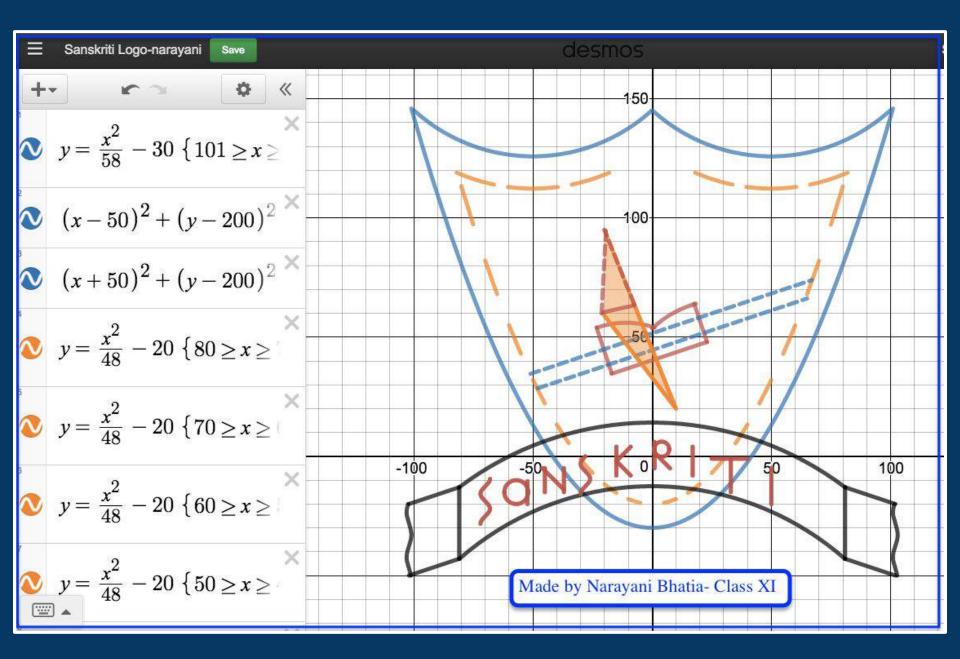


Desmos

- Maths & Art
 Concept Building
- Student Engagement

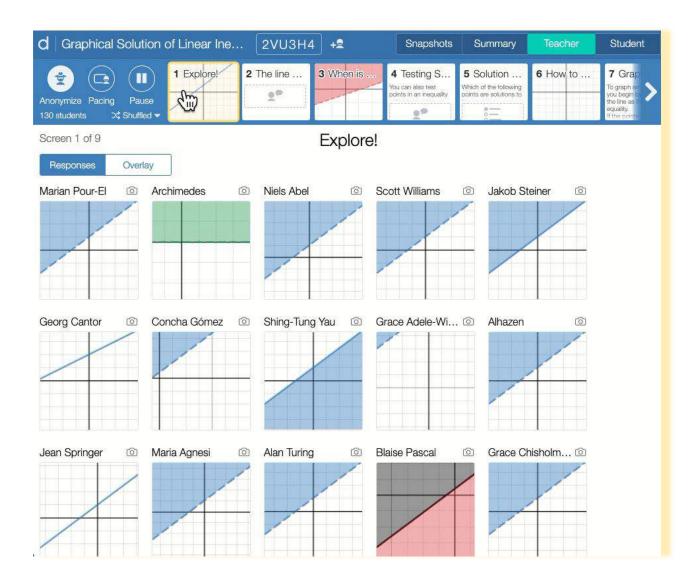








Desmos for Remote Teaching & Learning





Articles Published in At Right Angles - Azim Premji University Publication

DYNAMATH- presentation at University of Maryland, US, Dec 2011

eeta Gulati- Distingu

Award in Teach

Selected Online Resources



Action Research : "Use of Technology in Teaching and Learning of Mathematics"

🗙 Dynamath

home

Welcome to Dynamath...Make Maths Dynamic for your students!

This wiki was started under the <u>Fulbright Distinguished Award in Teaching</u> 2011 awarded to Sangeeta Gulati, Sanskriti School, New Delhi , India.

A big thanks to the US States Department for this honor and also to the Office of International Initiatives, College of Education ,University of Maryland for supporting me in my endeavor.

On this page you will find a Compendium of <u>"LiveBinders"</u> Ron topics ranging from Ratio and Proportion, Linear Equations, Geometry , Pythagoras Theorem, Probability, Calculus and much more.

These "LiveBinders" are collection of Interactive lessons, YouTube and other Videos, enriching lesson plans which will enable any Math teacher to enhance his or her lesson. The continually growing collection has been compiled keeping in view the curriculum followed in many Indian schools at Middle and Secondary level but it is a good resource for all Math teachers.

Follow the Navigation bar on the right to find some more enriching material that will help you in your classroom.

Geometric Wonders

Middle School Geometry

Learn with GeoGebra

Pythagoras Theorem

Search

- Linear Programming
- Pre Calculus and Calculus
- Inverse t- functions
- Google Classroom and GeoGebra

Maths and Art

 Math meets Art with Desmos

Learn From Your Mistakes

Presentation

Math Assignments

Smartskills

Technology Integration

- Learn from the experts
- All about SAMR
- Ideas for classroom
- Edmodo
- Chromebooks

www.dynamath.wikispaces.com: No longer existing!



A Compendium of Online Resources





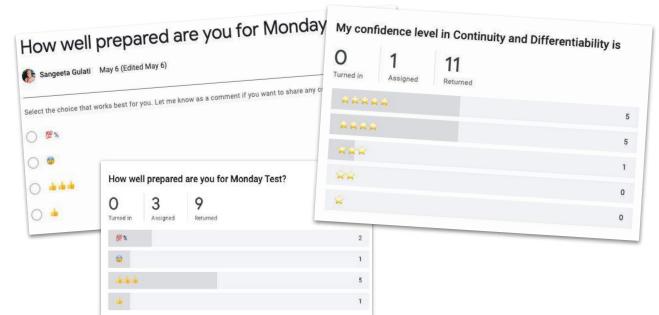
"If we teach today as we taught yesterday, we rob our children of tomorrow"- John Dewey



Teaching and Learning Maths during summer break of 2017

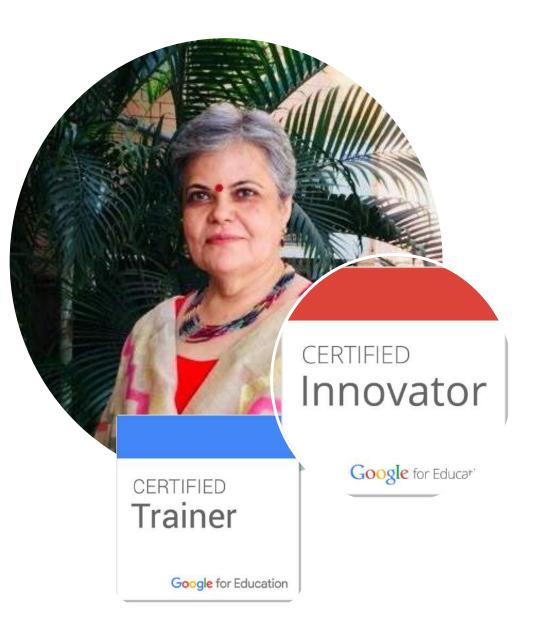








Proud to be a Teacher, Innovator & Trainer









Learn & Share

































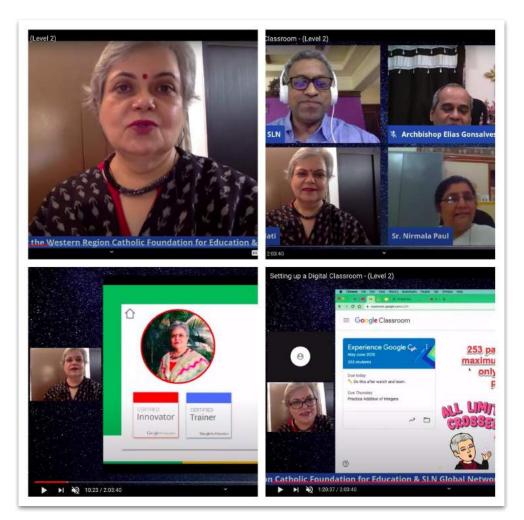


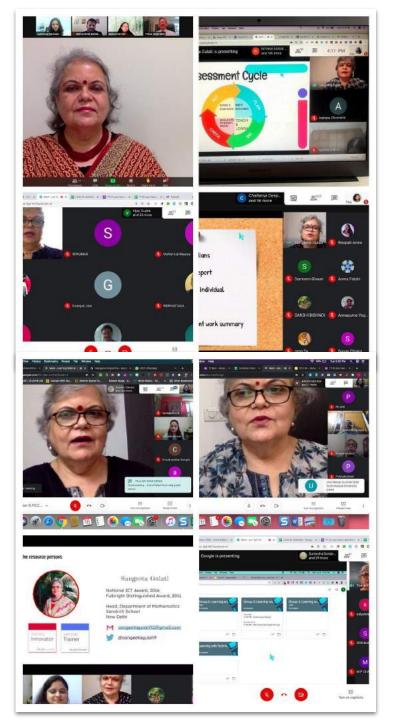






March 2020 onwards...





Google for Education



FICCI ARISE – Google for Educatio



Edu-expert led sessions on the t

| Sr. No. | Pedagogical Intervention | |
|---------|--------------------------|------------------------------|
| | PLANNING | Creating less learning |
| 2 | DELIVERING | Managing st |
| 3 | ASSESSING | Designing or |
| 4 | COMMUNITY ENGAGEMENT | Engaging wit wellbeing of |

Participate and benefit from the strategies for modern pedagogy



Sakshi Bishnoi 🛔 sbishnoi@google.com 🕿

CONTAC

Online Workshop on "Create,Visualise and Explore with GeoGebra and Desmos" Mode: Zoom App.

Duration: 1.30 hours

Date: 25^h July, Saturday,

3.00 pm - 4.30 pm

LINK FOR THE QUESTIONNAIRE

https://docs.google.com/forms/d/e/1FAIpQLSe Wbc9v5LBp45kVbzEhxARMS2HHvv7nZmqS8qOc SYYqbdxR8Q/viewform?usp=sf_link



SPEAKER Ms Sangeeta Gulati Head of Mathematics Department Sanskriti School, New Delhi

The Session will be live on Sahodaya

Facebook Page. Kindly join us at 3.00 pm..

SAHODAYA FACEBOOK LINK https://www.facebook.com/bangalore.sahodaya.3 SAHODAYA YOUTUBE LINK -

https://www.youtube.com/channel/UCOpsVxz6P4xch2ZyzNzjzLg?view_as=

subscriber

Bangalore Sahodaya Schools Complex Association

SINAR

Stay Safe from # CeVID - 19 and Learn at Home

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eate and Collaborate th Google Docs

sessment for Learning th Google Forms

JOIN US ON WEBINAR

.

Live interaction on

Do More With Slides (Hindi)

4:00pm - 5:00pm 09 October 2020

Speaker

Ms. Sangeeta Gulati National ICT Awardee, Sanskriti School

National ICT Awardee, Sanskriti School

ion visit: https://ciet.nic.in/pages.php?id=webinar



The Innohere Scheel



India: Digital Learning - The New Frontier in Indian Education

D Language English -

Thailand: Enabling Interactive Learning in the New Normal

Up next

12:00 PM - 12:30 PM

11:25 AM - 12:00 PM

Sanjay Gupta Manoj Ahuja Dr. Biswajit Saha Sangeeta Gulati Dr. Arunabh Singh Aditya Natraj Digitisation has the potential to transform India's education system & help create equitable access to quality education for every student. Join us to hear actionable insights from industry leaders implementing the change.

Google for Education







0

India: Digital Learning - The New Frontier in Indiar

Sanjay Gupta Manoj Ahuja Dr. Biswajit Saha Sangeeta Guloti Dr. Arunabh Singh Aditya h. Digiti sation has the potential to transform India's education system & help create equitable us to hear actionable insights from industry leaders implementing the change.





India: Digital Learning - The New Frontier in Indian Education

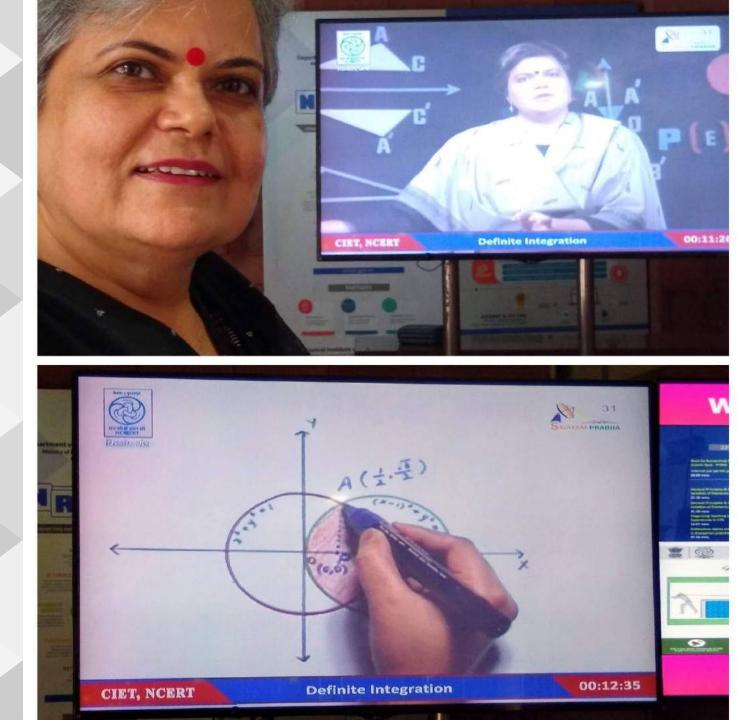
11:25 AM - 12:00 PM

Sanjay Supta Manoj Abuja Dr. Biswajit Saha Sangeeta Gulati Dr. Arunahb Singh Aditya Natraj Digitisation has the potential to transform India's education system & help create equitable access to quality education for every student. Join us to hear actionable insights from industry leaders implementing the change.

🕲 Language · English 💌

≡, Up next

Thailand: Enabling Interactive Learning in the New Normal 12:00 PM - 12:30 PM













Empower Inspire Share Learn























AND THE JOURNEY CONTINUES...



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Ms Sangeeta Gulati

National ICT Award,2016

Fulbright Distinguished Award, 2011

Head, Department of Mathematics

Sanskriti School, New Delhi



Email: sangeetagulati92@gmail.com Twitter : @sangeetagulati9



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Contributions as a Resource Person

National Council of Educational Research and Training:

Development of E content for higher secondary, Maths - November, 2016

Development of E content for primary classes, Maths - August, 2016

Subject matter expert to develop course modules for MOOCs (SWAYAM) ,Senior Secondary School Education,July 2016

Development of the ICT kit for secondary school mathematics teachers, 2013

ICT Curriculum Development workshop at CIET, NCERT in May 2013

Technology and Innovation in Mathematics Education (TIME), IIT Powai

Presented papers on 'Use of Dynamic Geometry Software' and 'Online Resources' at the biennial event TIME, IIT, Powai in 2007, 2009, 2012, 2013,2015.

Hands on workshop on GeoGebra and Geometer's Sketchpad conducted at Professional Development and Technology Orientation at Powai, Indore, Ahemdabad

Ramanujan Foundation for Initiatives in Mathematics Education (RFIME)

Hands on session on GeoGebra and Desmos during workshops "Empowering the Mathematics Teacher: Innovative practices to enliven the mathematics classroom" -since 2012

Google, India

School Leadership Summit 2016 was hosted at Sanskriti School in collaboration with Google, India on Feb 6, 2016.I shared the innovations done in my classrooms and highlighted the role of Google Educator Group (GEG) in supporting the educators all across India.

GEG Lightning Talk on use of Google Apps for Education and Google Classroom to the team from NCERT at the office of Google, New Delhi on October 20, 2015

On Teachers Day(2015), I received recognition from Google India Blog

Google Educator Leader, Delhi