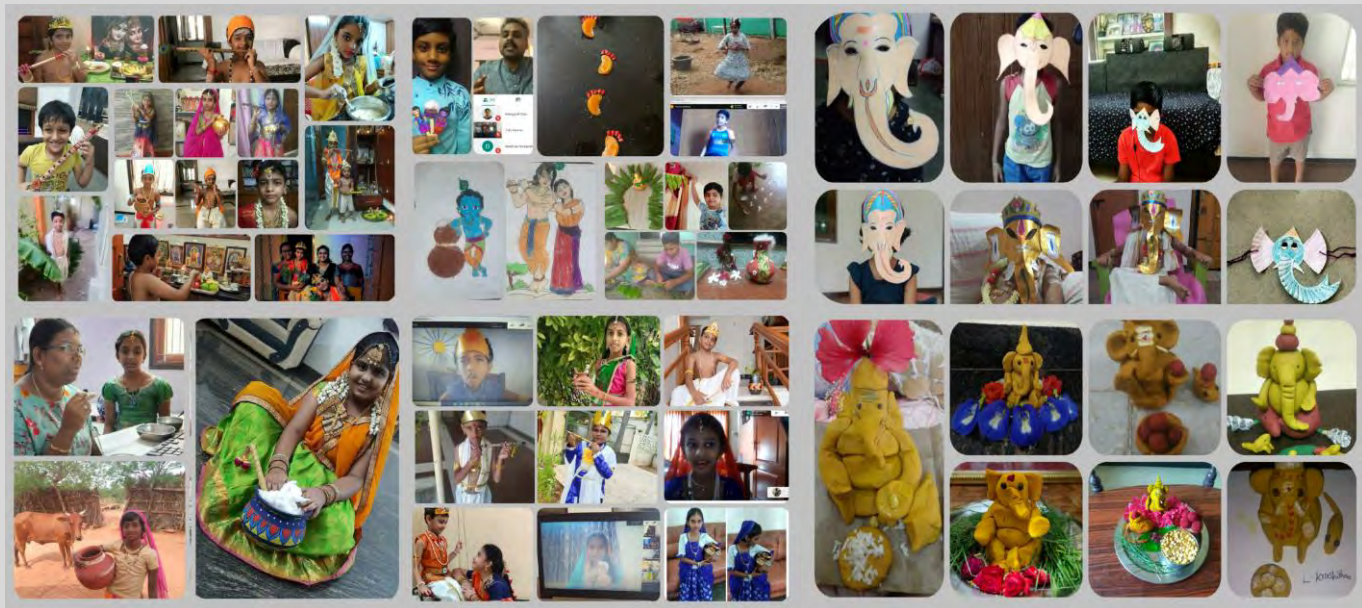


Newsletter

August'20

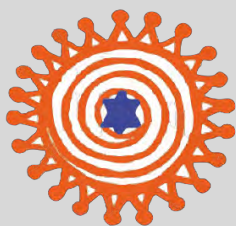


In this Issue:

- Dress up as a character
- Thanks Giving Day
- Krishna Jayanthi Celebration
- Bird Feeder
- Animal puppet
- Manipulative
- Open and close containers
- ICT - Offline Activity
- Independence Day Celebration
- Ganesh Chaturthi Celebration
- EPL Activity
- Various tools view of 3D shapes

- Digital world into the real world
- Map work
- Virtual field trip
- Virtual Guest Lecture
- Prefect Election- grades IX & X
- Simulation Osmosis
- Guiding Values and Philosophy of the Indian Constitution
- Doodle art by using triangles
- Parents Teachers Meeting
- Grade – XI Sketches by Students
- Grade – 12 Biology offline activity
- Grade – XI & XII Chemistry offline activities
- Grade – XI & XII Chemistry offline activities

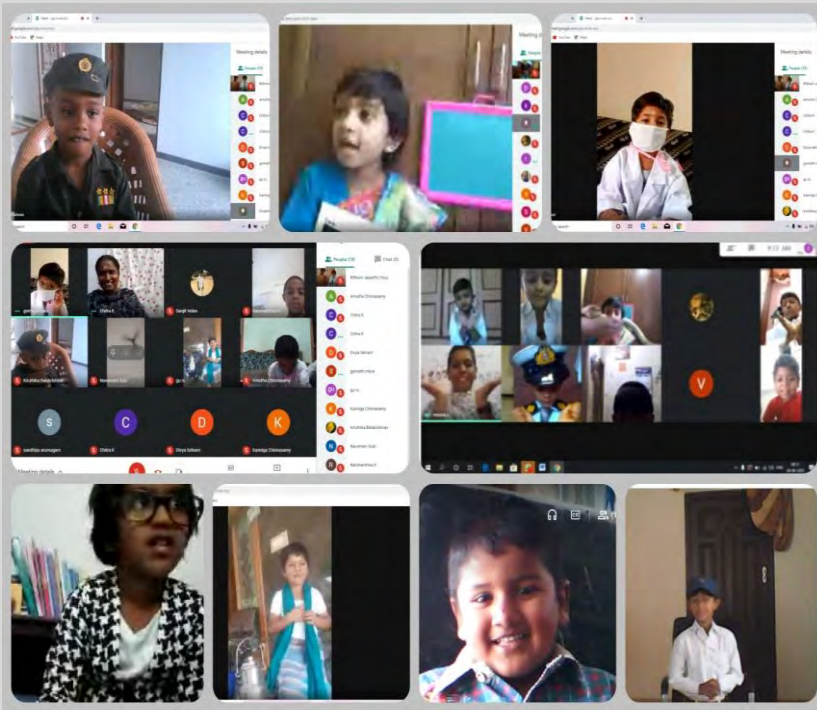
- Fitness Class
- Grade – XII Physics – Olabs
- Grade – XI Physics – Olabs
- Grade – XI & XII Chemistry – Simulations
- Grade – XII Biology – Phet Simulation
- Grade XI – Chemistry – Simulation
- Grade – XI Economics – Graphs
- Grade XI – Maths – Whiteboard
- Grade XI – Biology – Recap of lesson



**Chettinad
Vidya Mandir**

To educate individuals to become compassionate and responsible global citizens who contribute towards sustainable development.

Dress up as a character



Children of SKG dressed up as community helpers and spoke about their contribution to society and the help they render in our daily life.

Thanks Giving Day

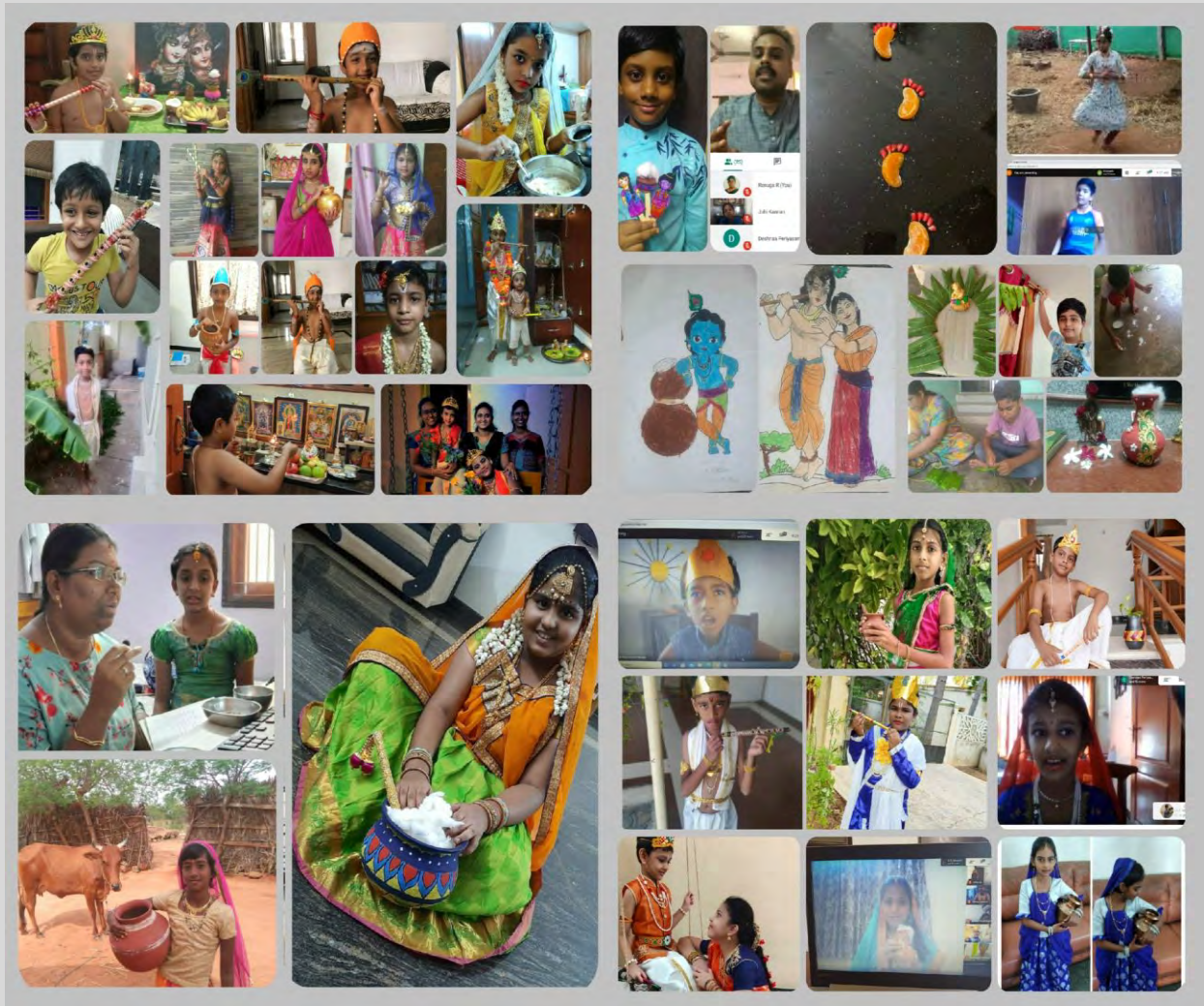


Grade I students made masks and presented to the community helpers in the neighborhood.



During the circle time grade III students observed Thanks giving day. They played a gratitude game of naming a person, place, food or thing for which they are grateful. They also created Thank you cards for their parents.

Krishna Jayanthi Celebration



Children celebrated Krishna Jayanthi by dancing and singing bhajans. Drawings, puppet show, rangoli and pooja decoration were also a part of the celebration. Parents visited the classes to narrate the stories of Krishna and demonstrated the traditional method of churning butter.

Bird Feeder



Grade III children made bird feeder for the birds.

Animal puppet

Grade IV children created animal puppets and shared information about those animals.



Manipulative



Students
learned addition
with available
manipulatives.

Open and close containers

JKG children opened and closed containers to improve their motor skills.



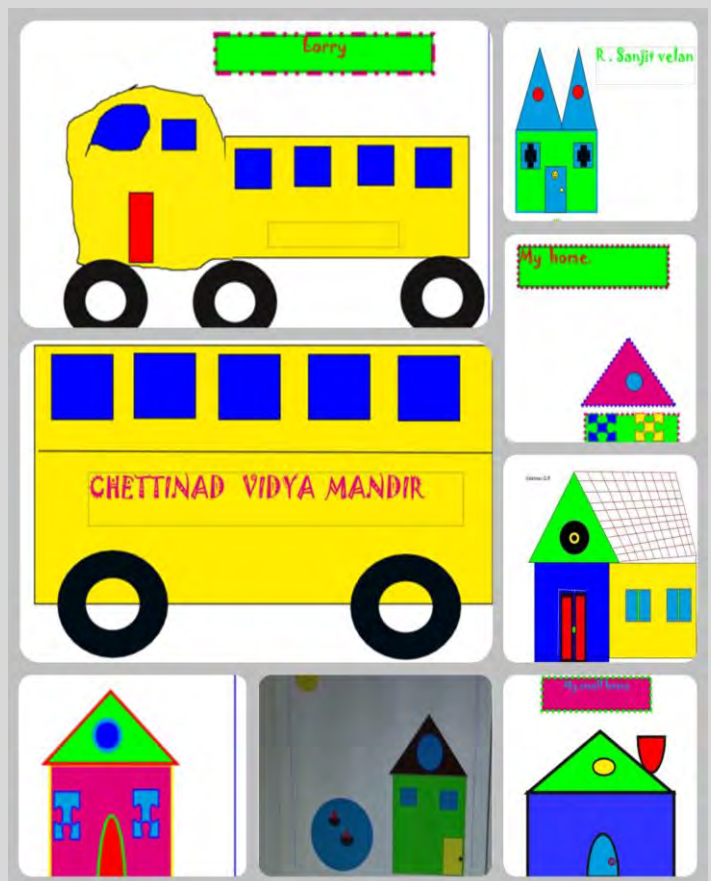
ICT - Offline Activity



Grade IV students used Open Office Writer software to create a document on “Benefits of forest & Amazon forest”.

ICT - Offline Activity on shapes

A document on “Houses & vehicles” was created by grade III students using shapes tool in Scribus software.

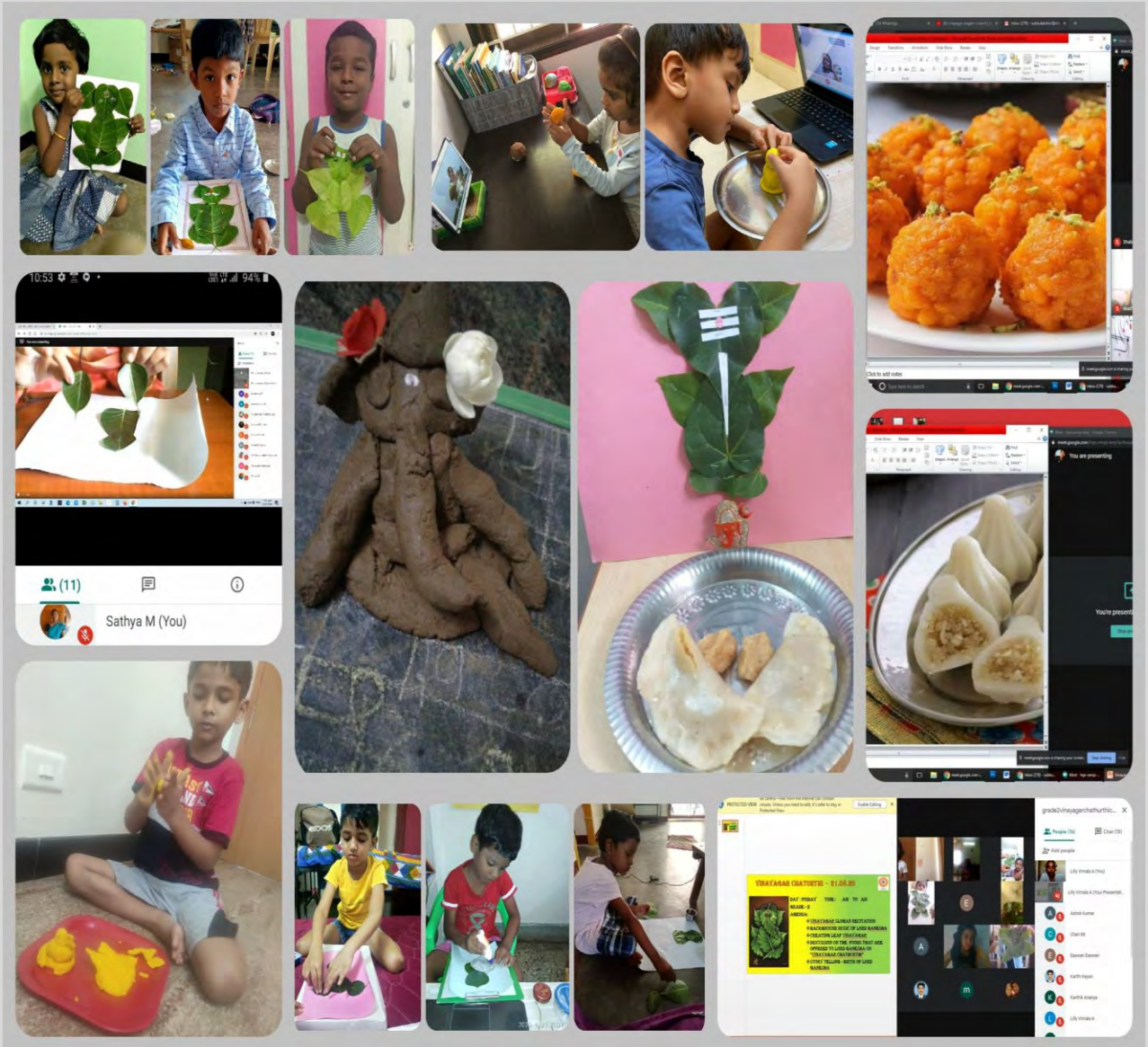


Independence Day Celebrations

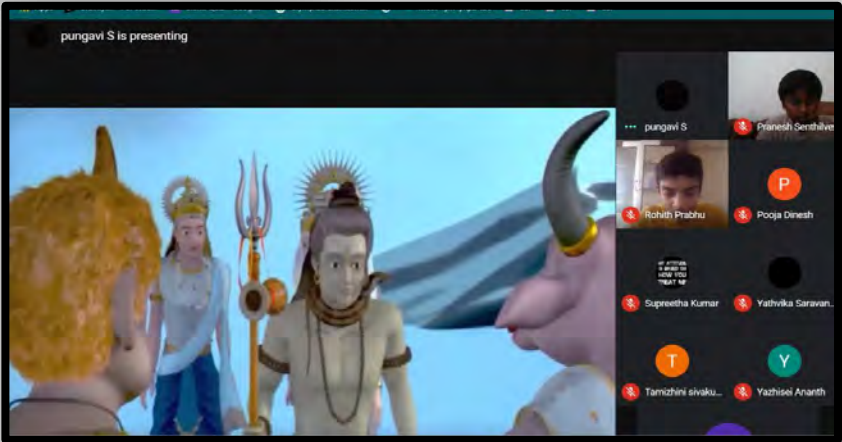
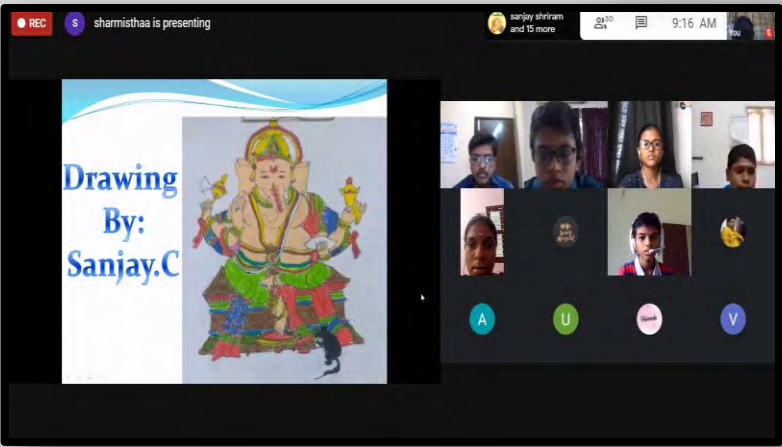
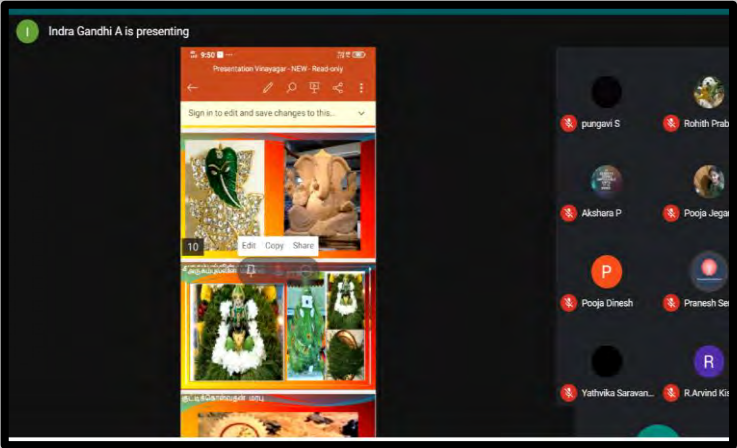
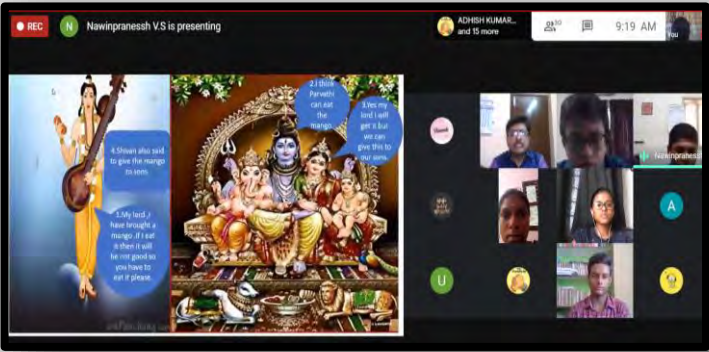


KG children created flags with pulses for the Independence day.

Virtual Ganesh Chaturthi Celebrations



Children of KG, grade I and II created Vinayagar using turmeric powder, leaf and clay, recited Vinayagar slogams, discussed the food that is prepared and offered to Lord Ganesha. They attended story telling sessions on the birth of Lord Ganesha by virtual guests.

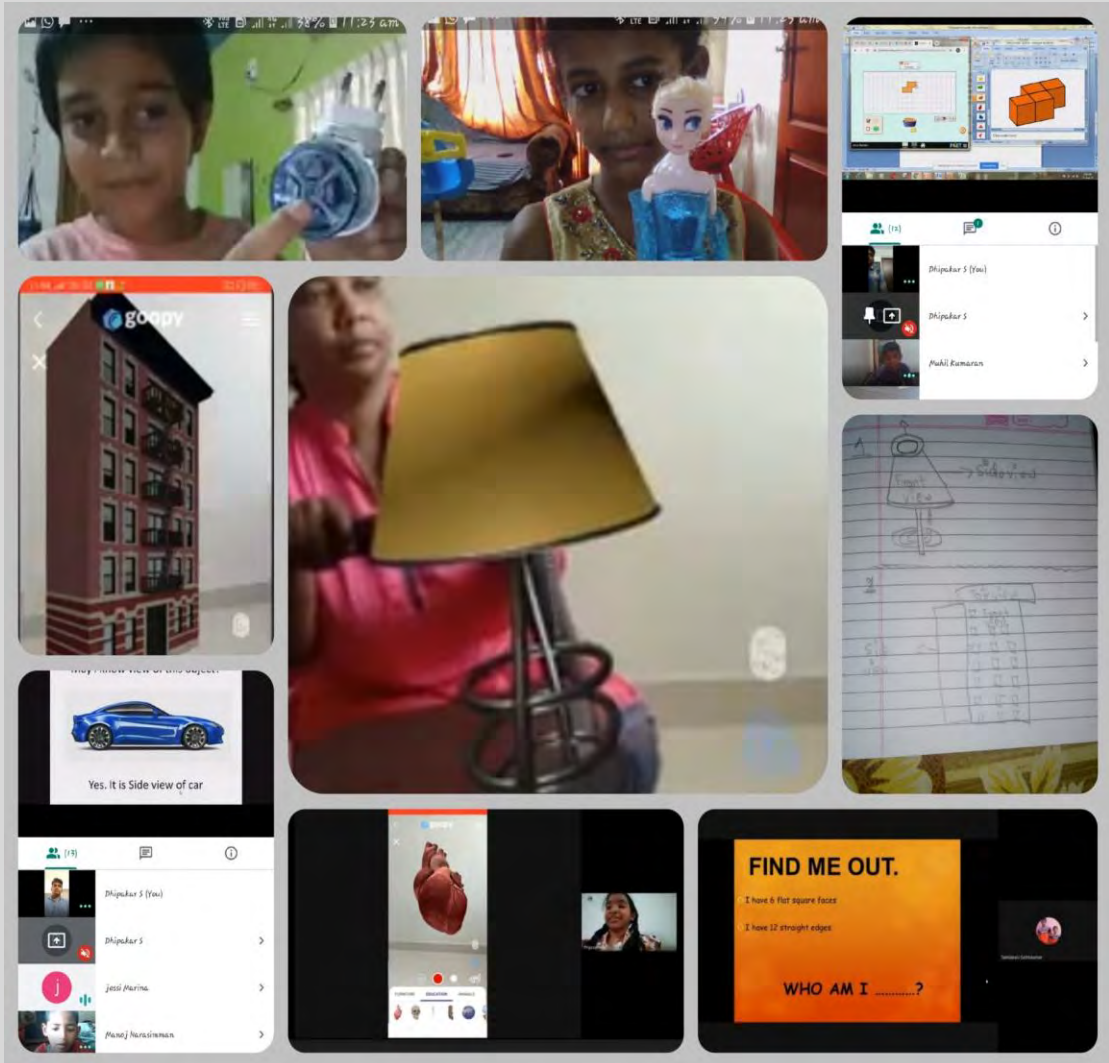


EPL Activity



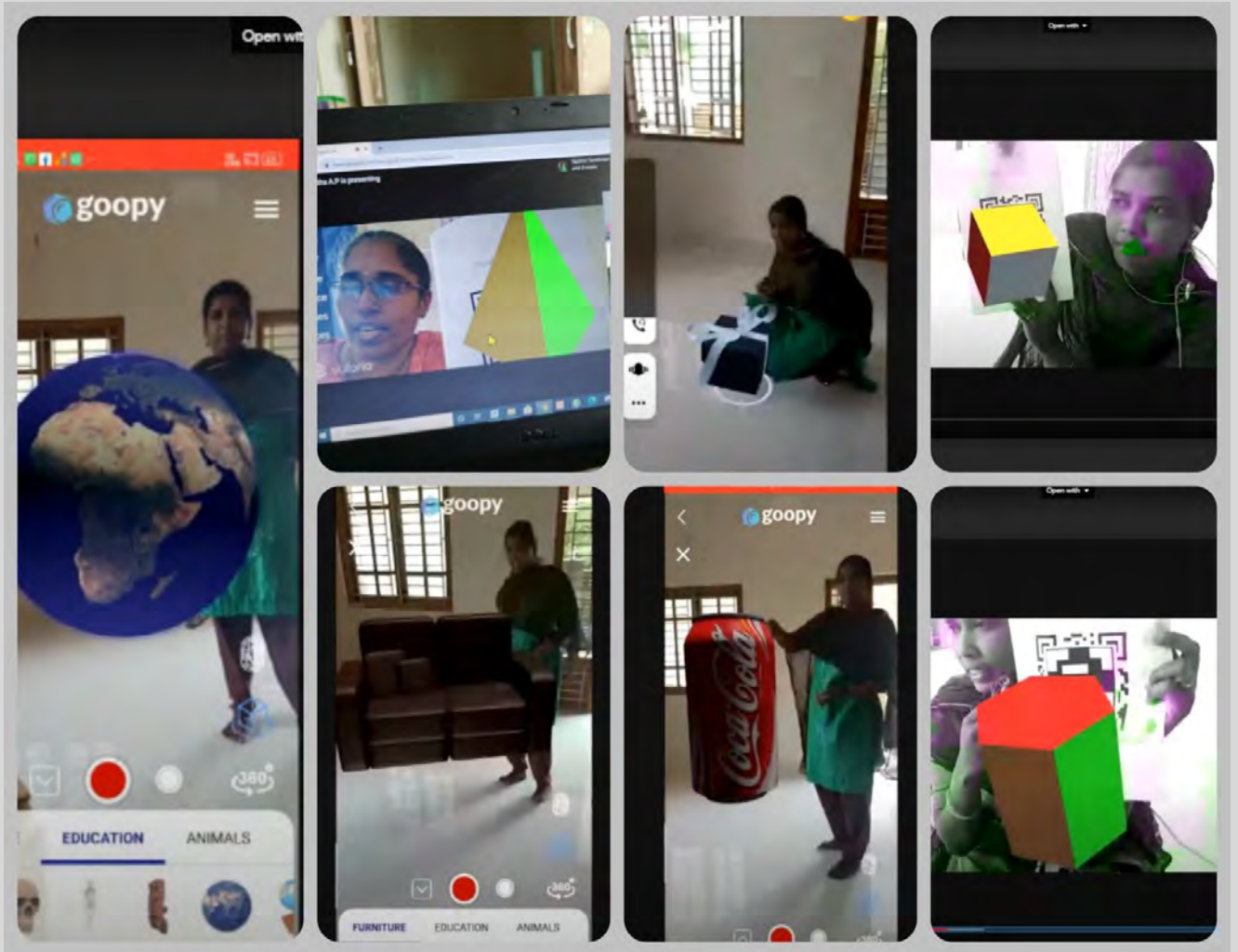
JKG children flattened dough and made chapathis as part of their EPL activity.

Tools to view of 3D shapes



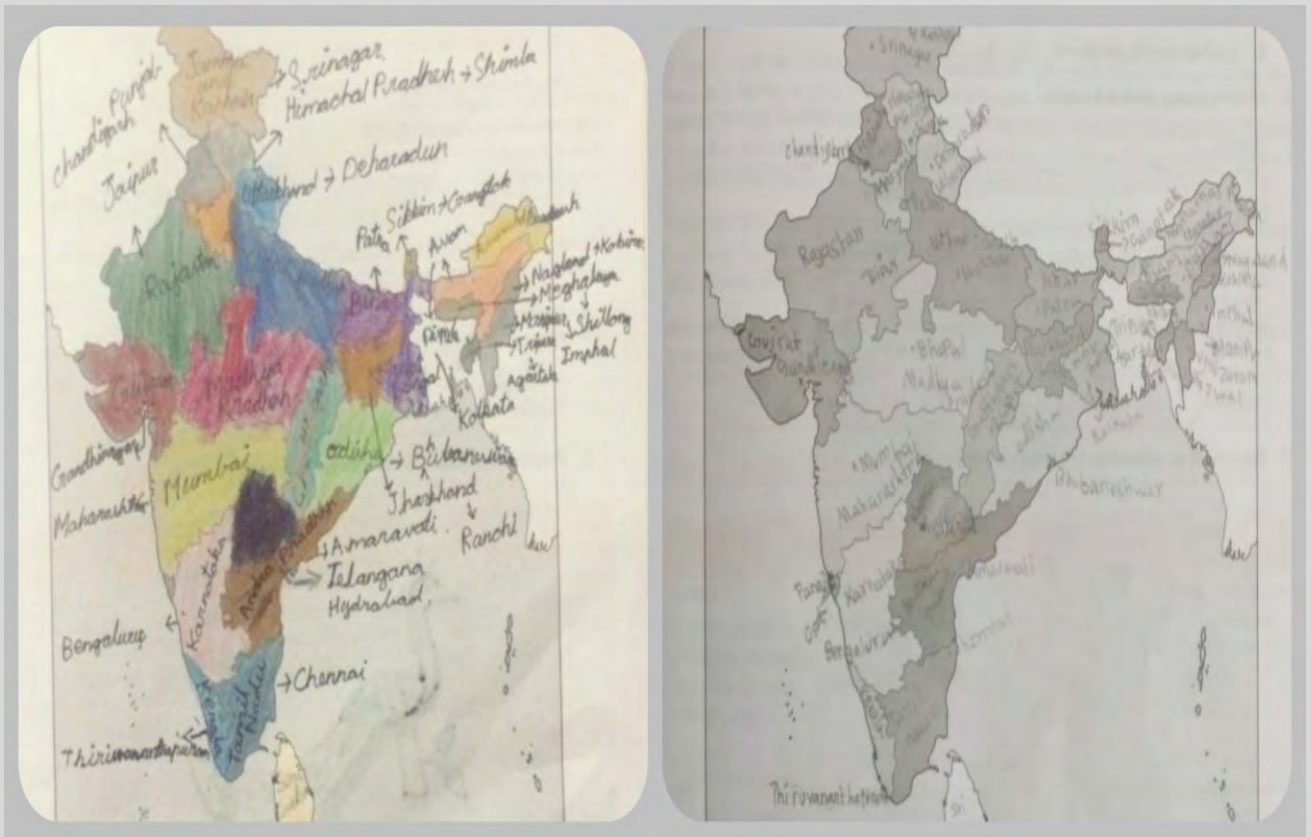
Various tech tools like AR apps , PHet tool were used by grade IV children to explore different views of 3D objects. Some real life objects were also analyzed by them.

Digital world into the real world



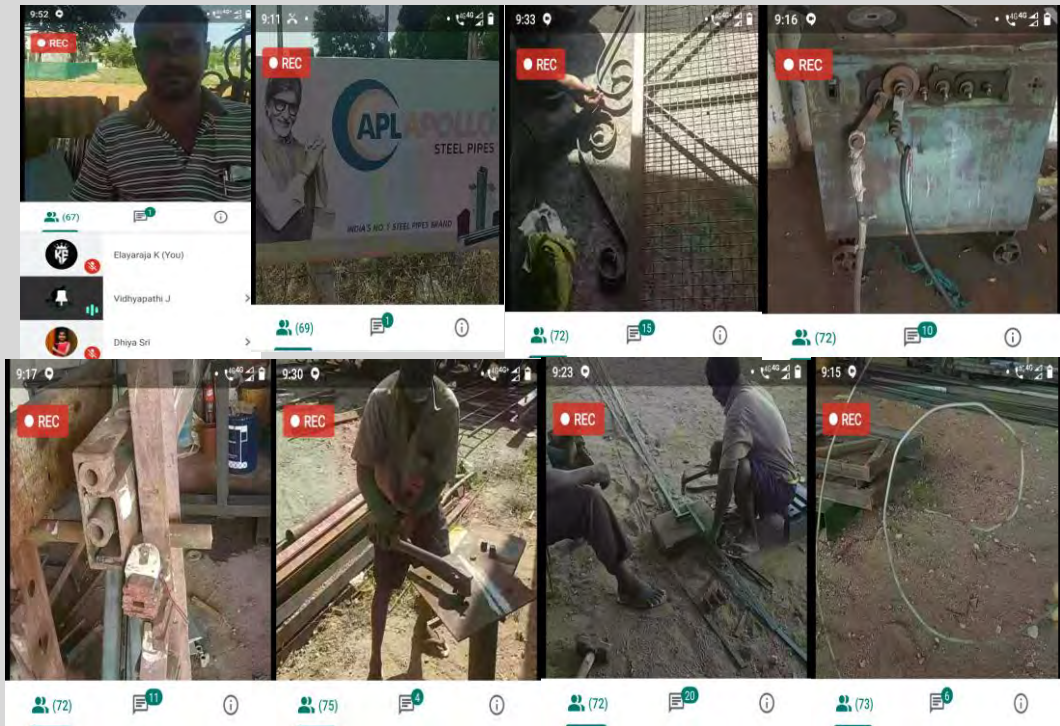
Grade IV math class gave the students an interactive experience of a real world environment through the Augmented Reality to understand the concept of 3 D shapes.

Map work

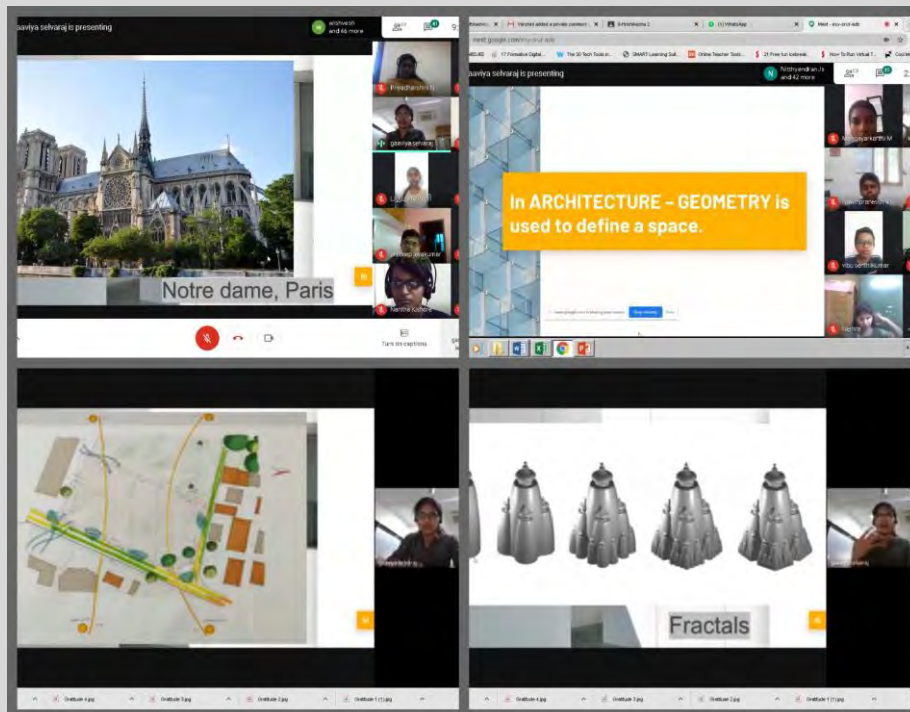


Students marked the states and their capitals on the map of India.

Virtual field trip

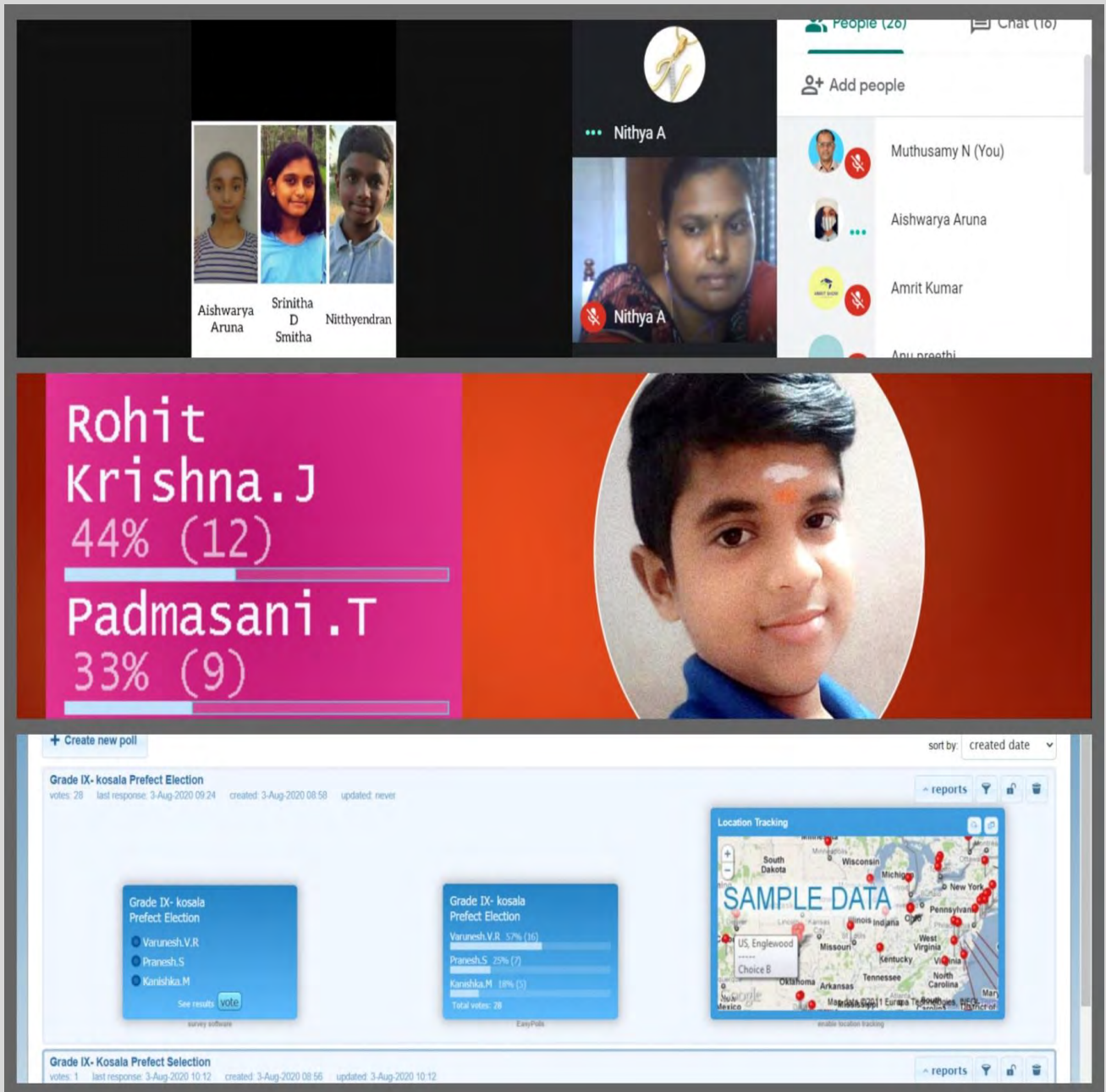


Virtual Guest Lecture



"Mathematics in Architecture" by Alumnus Gaavyashree.M.S

Prefect Election in grades IX & X



Students had a first hand experience of '**Elections in Democracy**', when they elected their class prefects using easypoll.com

CVM PREFECT ELECTION 2020-2021-XI 4 KADAMBA



Nikhil Ashwanth V.K



Jathesir Krishna

**Nikhil Ashwanth
V.K**



Kaviya



Nandana

Chettinad Vidya Mandir, Karur

The Prefect Election - XI Madhulika

03.08.20
9-9:15ar

The Nominees:

B.Shivani



B. Sundareswaran



Chettinad Vidya Mandir

Prefect Election – 2020 XI - Padmal



Sandhiya



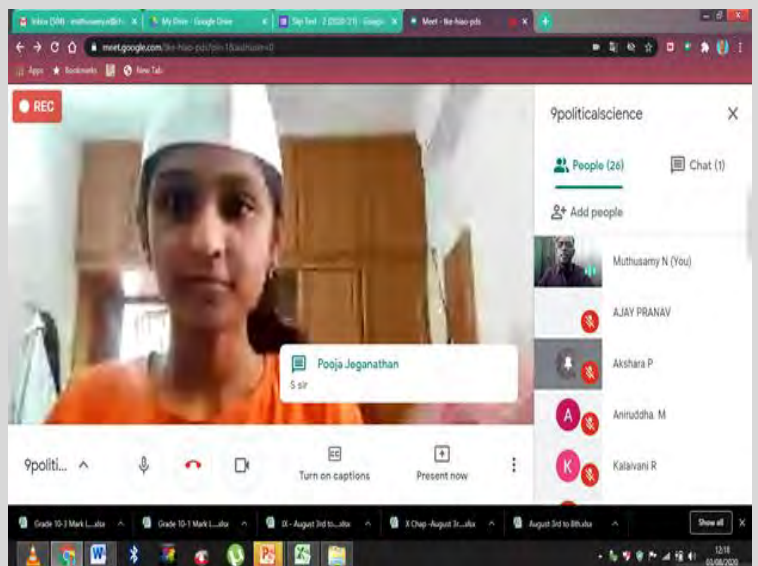
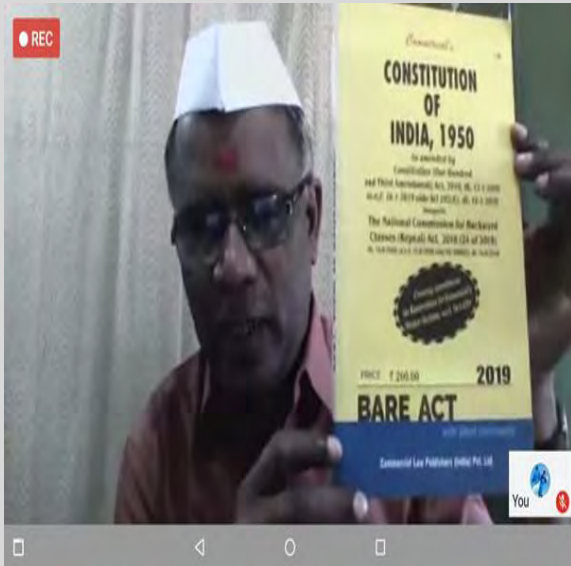
Palaniappan



Rithanya

Students of grade XI and XII, under the guidance of their class teacher, chose their class prefects using e-voting.

Guiding Values and Philosophy of the Indian Constitution



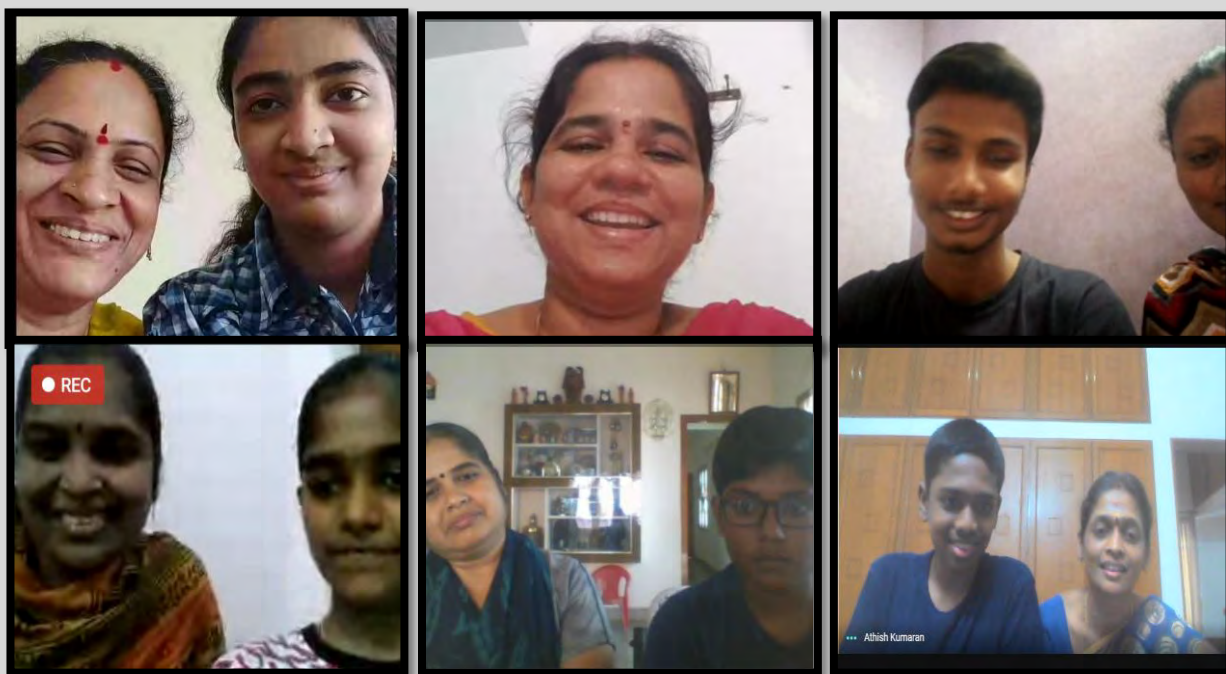
Students of grade IX reflected on the ideas and sacrifices made by our National Leaders during their virtual classes.

Doodle art using triangles



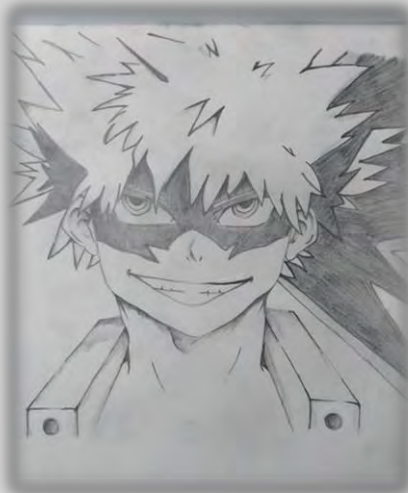
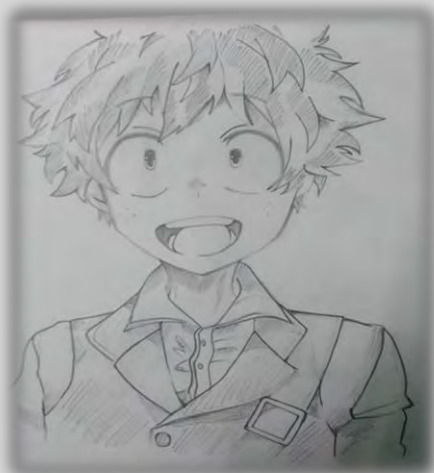
Materials of same colour, size and shape were collected by students to understand the difference between similarity and congruence. They used videos and online memory games to understand congruency. As a part of well being activity children drew doodle art using only triangles.

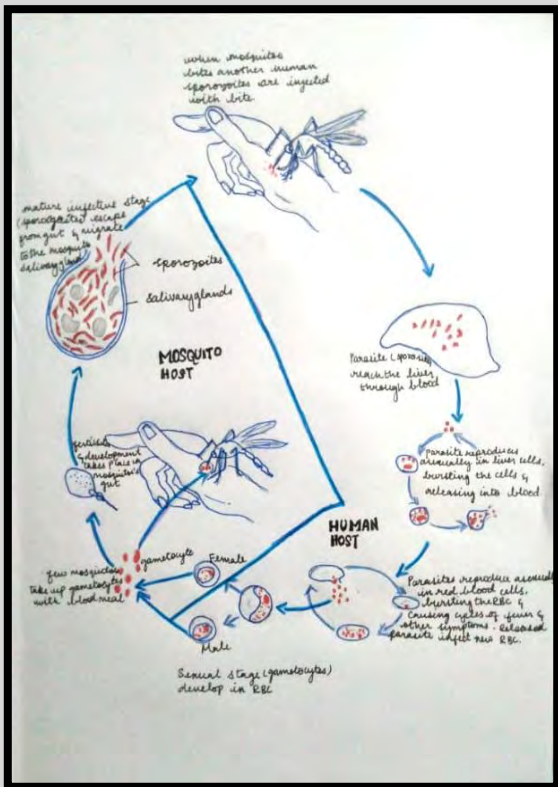
Parents Teachers Meeting



Parents Teachers meeting was conducted for senior secondary students. Parents and students appreciated the school for its effort in making the online sessions a true learning experience.

Grade – XI Sketches by Students



[illegible]

24

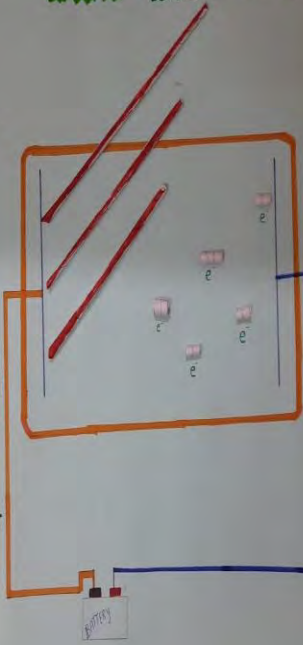
Grade – XI & XII Chemistry offline activities

PHOTO ELECTRIC EFFECT

$h = 6.63 \times 10^{-34} \text{ J}\cdot\text{Sec}$
 $h\nu = h\nu_0 + K.E$

EXP SHOWS:

- The frequency of the light needed to reach a particular minimum value [depending on the metal] for photo electrons to start escaping the metal.



USES:

- Photo Electric Cell
- Light sensor
- Light meter
- Light switch

Conditions:

- $\nu = \nu_0$ [e are ejected]
- $\nu > \nu_0$ [e are ejected]
- $\nu < \nu_0$ [e can't be ejected]

The Maximum kinetic energy of the photo electrons depend on the frequency of the light not the intensity of light.

Lanthanoids - Electronic Configuration

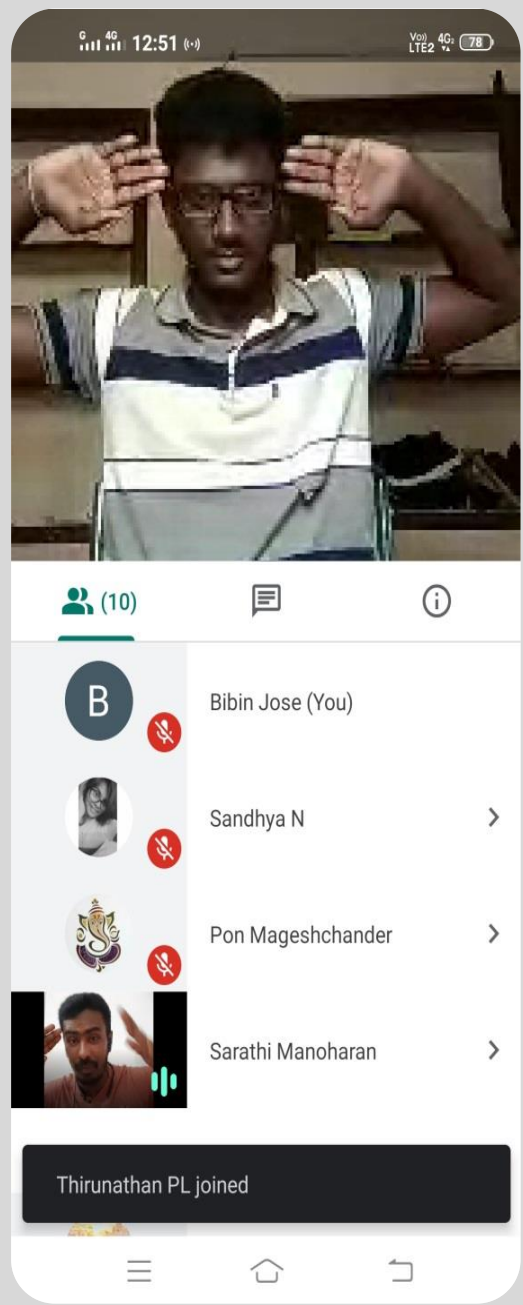
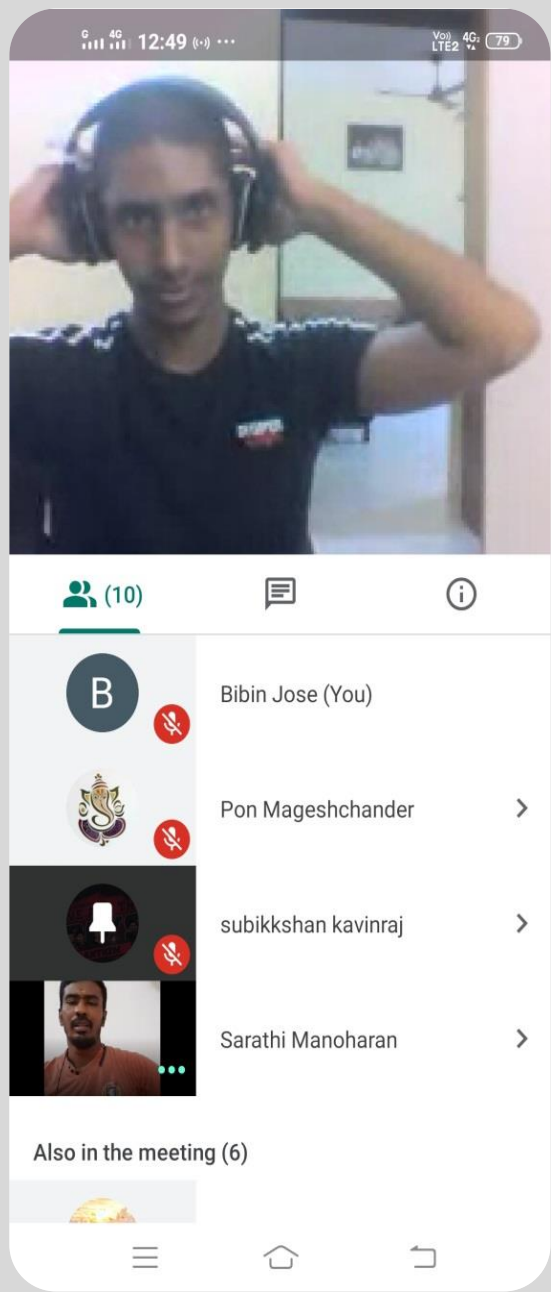
La	Lanthanum	57	$[\text{Xe}] 5d^1 6s^2$
Ce	Cerium	58	$[\text{Xe}] 4f^1 5d^1 6s^2$
Pr	Praseodymium	59	$[\text{Xe}] 4f^3 6s^2$
Nd	Niodymium	60	$[\text{Xe}] 4f^4 6s^2$
Pm	Promethium	61	$[\text{Xe}] 4f^5 6s^2$
Sm	Samarium	62	$[\text{Xe}] 4f^6 6s^2$
Eu	Europium	63	$[\text{Xe}] 4f^7 6s^2$
Gd	Gadolinium	64	$[\text{Xe}] 4f^7 5d^1 6s^2$
Tb	Terbium	65	$[\text{Xe}] 4f^9 6s^2$
Dy	Dysprosium	66	$[\text{Xe}] 4f^{10} 6s^2$
Ho	Holmium	67	$[\text{Xe}] 4f^{11} 6s^2$
Er	Erbium	68	$[\text{Xe}] 4f^{12} 6s^2$
Tm	Thulium	69	$[\text{Xe}] 4f^{13} 6s^2$
Yb	Ytterbium	70	$[\text{Xe}] 4f^{14} 6s^2$
Lu	Lutetium	71	$[\text{Xe}] 4f^{14} 5d^1 6s^2$

Some elements like La, Ce, Pr, Yb, Lu have a very different electronic configuration when compared to other elements.

Done by:
Ma. Vina
XII-Tatkhushila

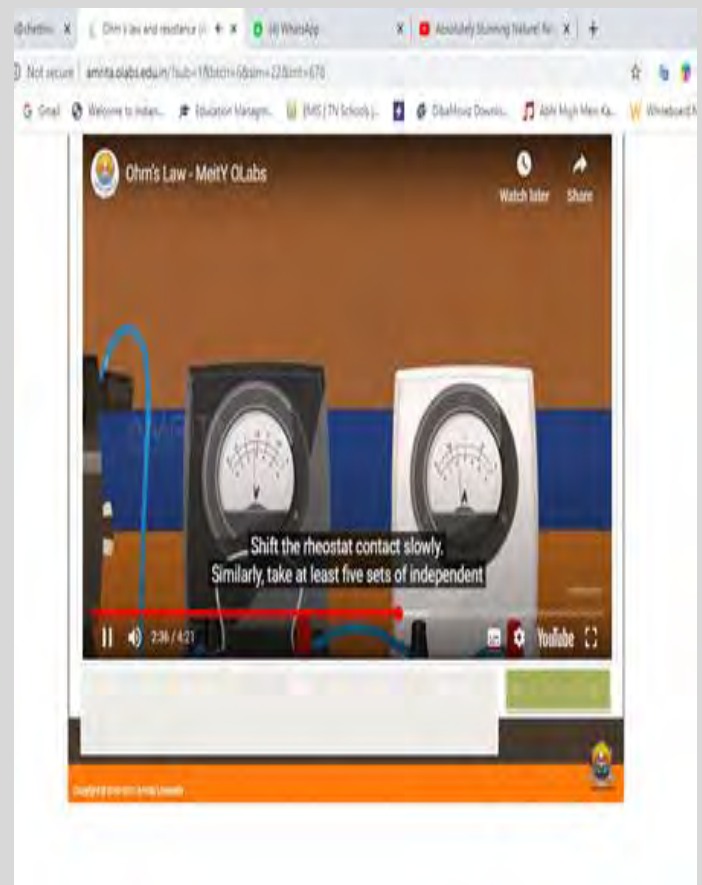
Students of class XI created charts to present their understanding of the topic Photo Electric Effect and Electronic configuration of Lanthanoids.

Fitness Class



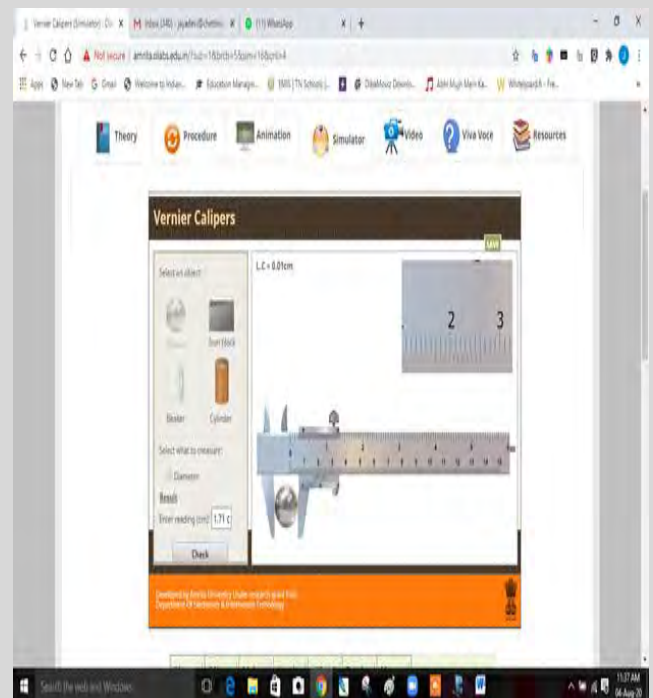
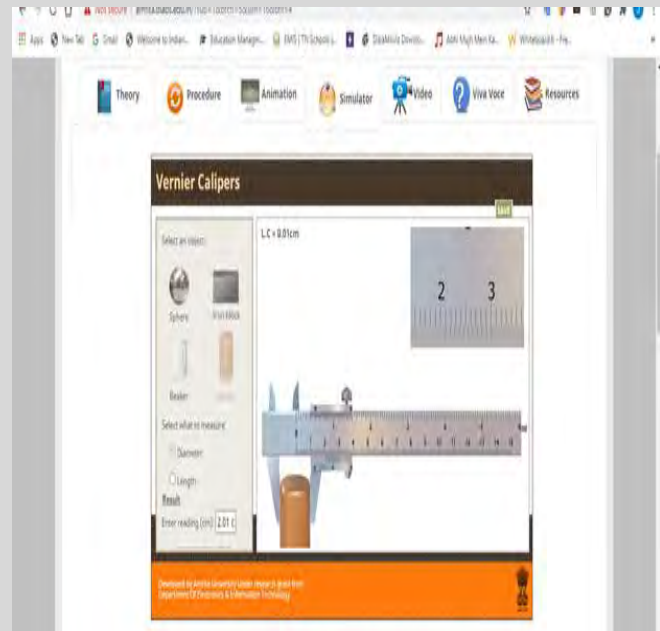
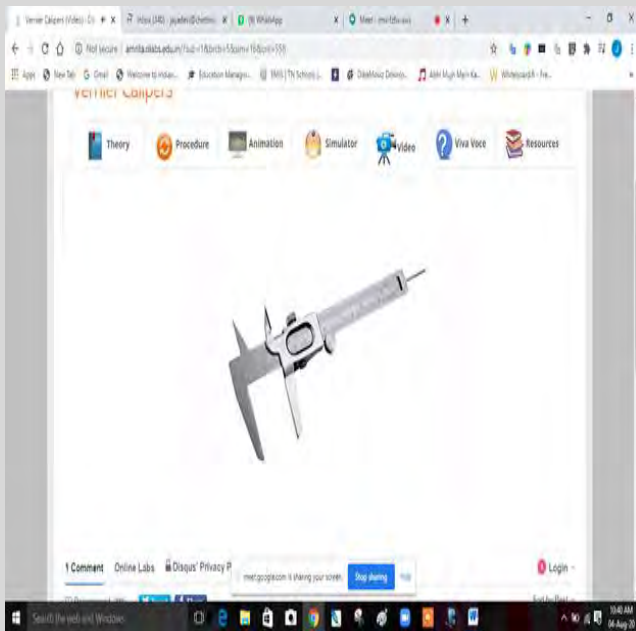
Under the guidance of their physical education teachers, students of the senior secondary grade did different exercises to reduce back pain.

Grade – XII Physics Simulation

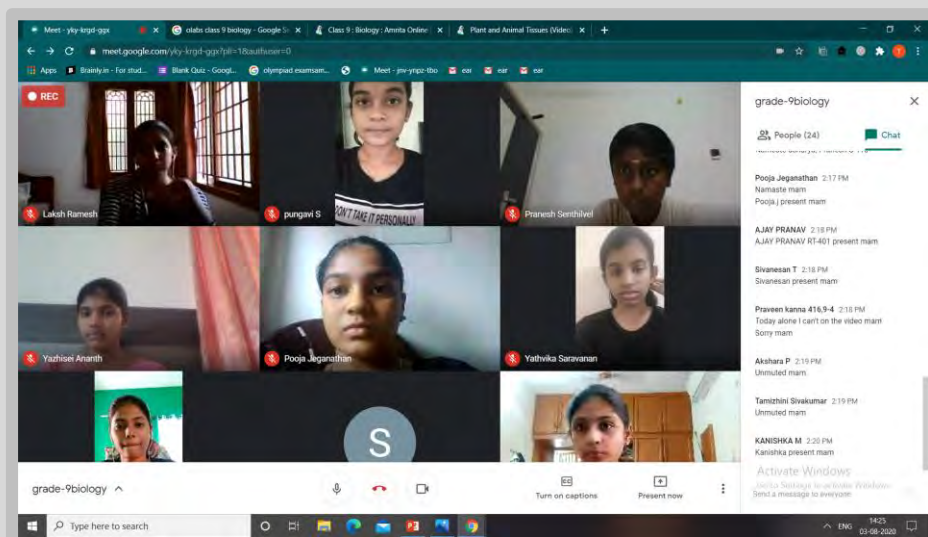


Online labs and simulations were used by teachers to demonstrate the working of different laws like the **Ohm's** law and the usage of instruments like Screw Gauge and Vernier Caliper.

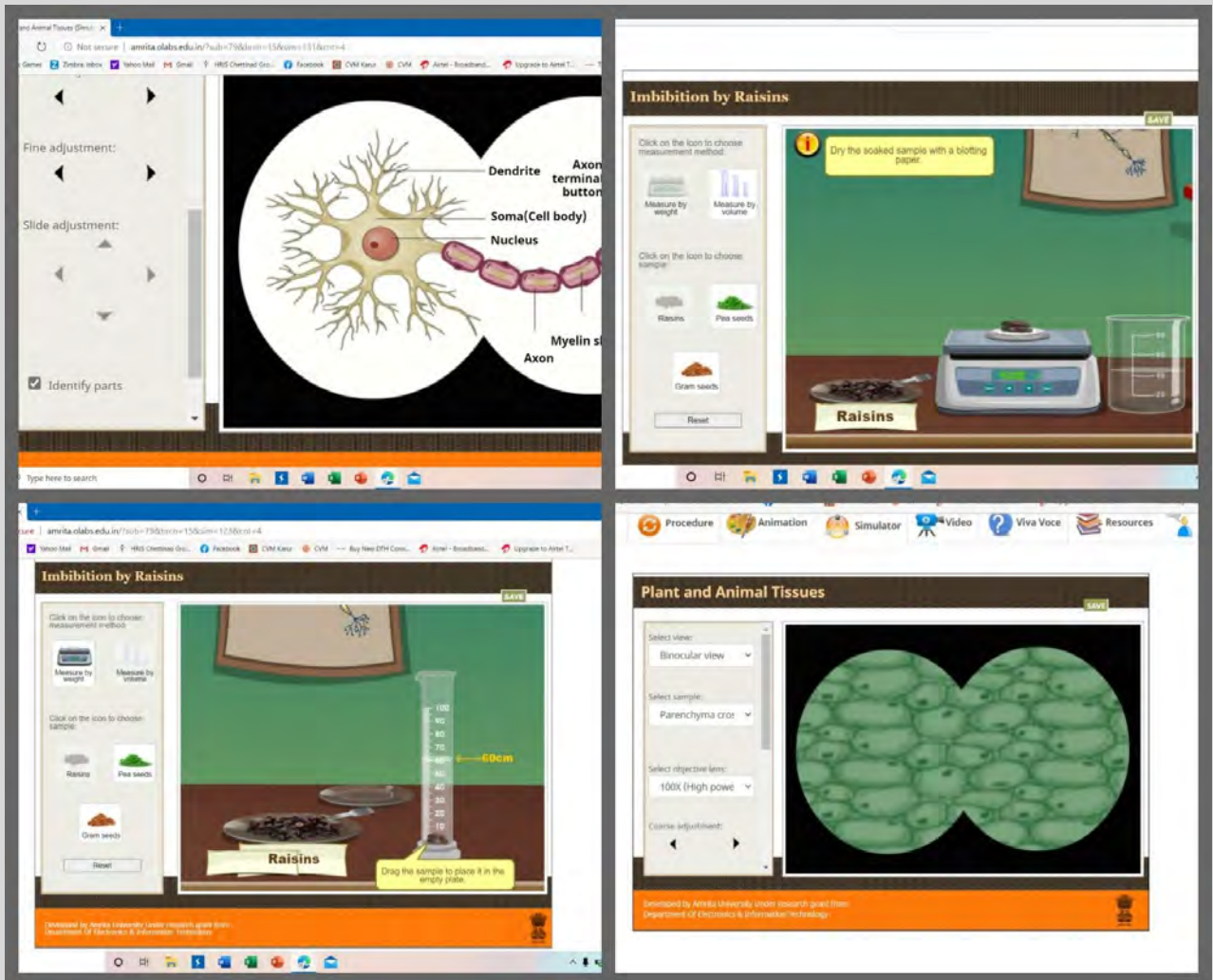
Grade – XI Physics Simulation



Simulation-Different types of tissues



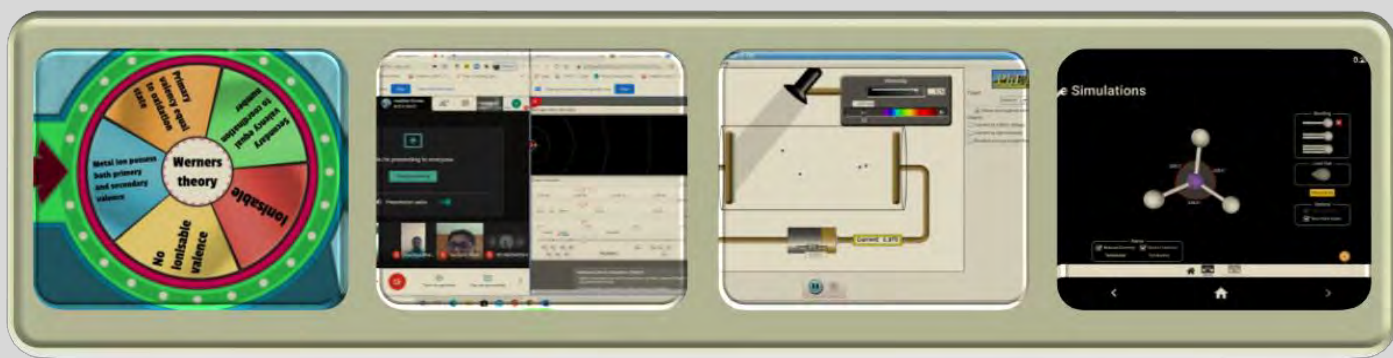
Simulation Osmosis



Students used simulation to observe different types of plant tissues and animal tissues.

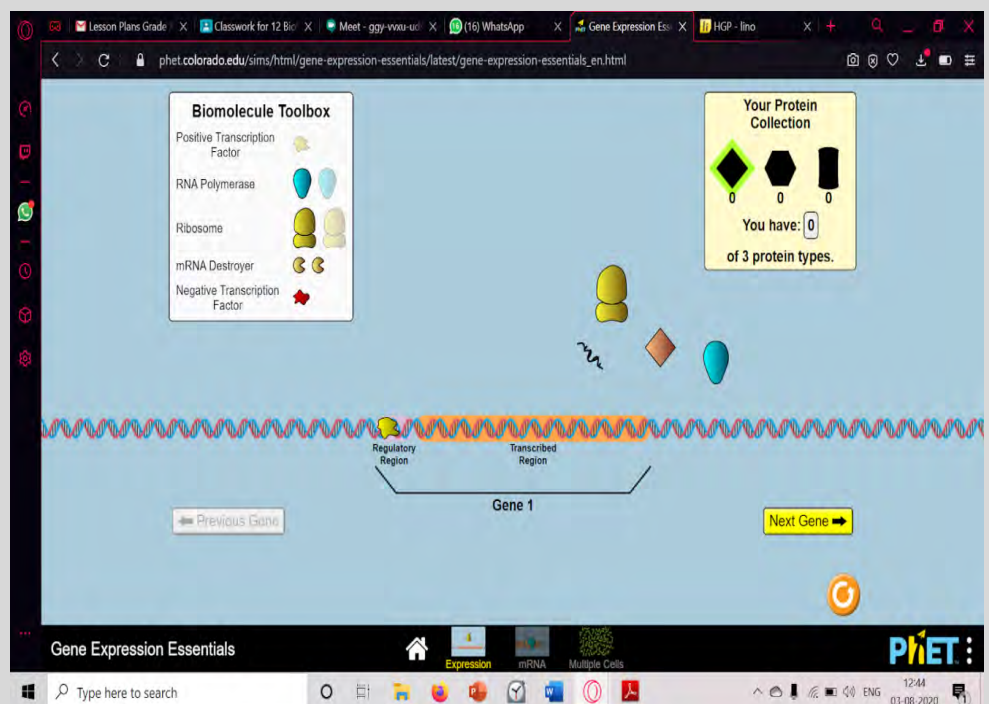
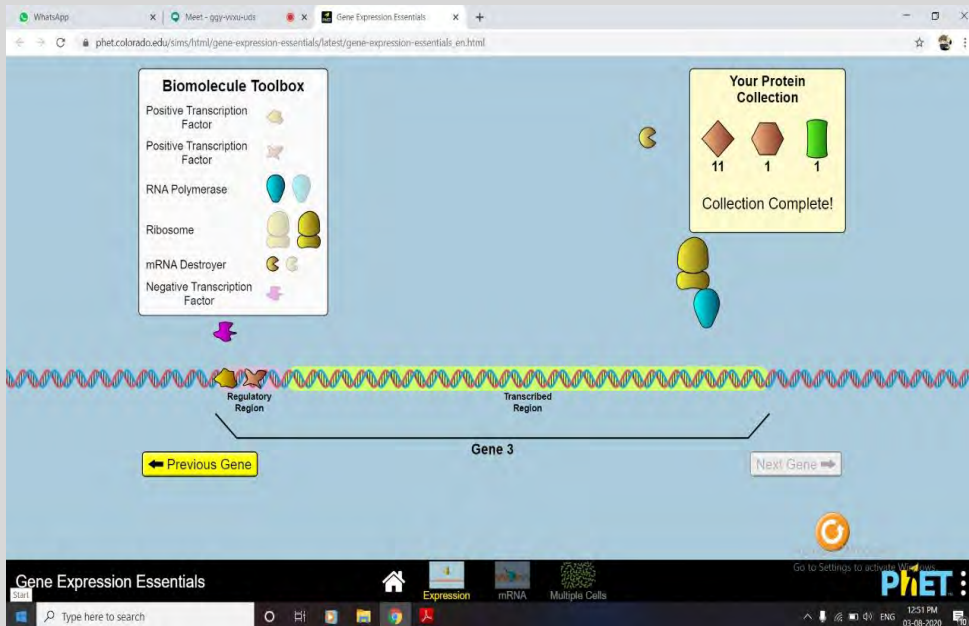
Grade – XI & XII

Chemistry – Simulations



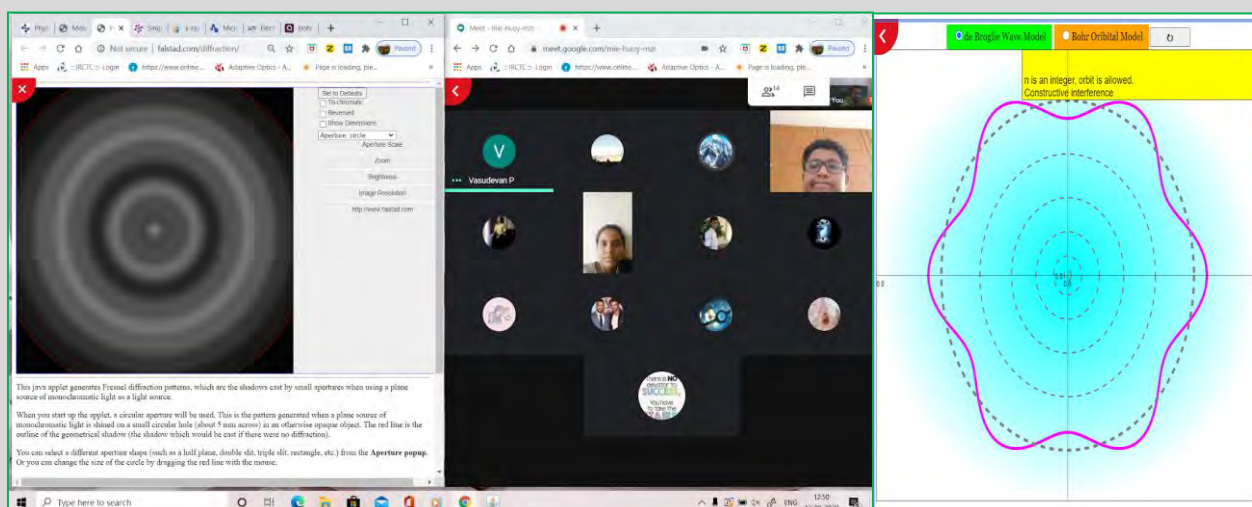
Chemistry teachers used simulations to demonstrate and teach concepts like Photo Electric Effect and Energy Levels of Hydrogen.

Grade – XII Biology – Phet Simulation



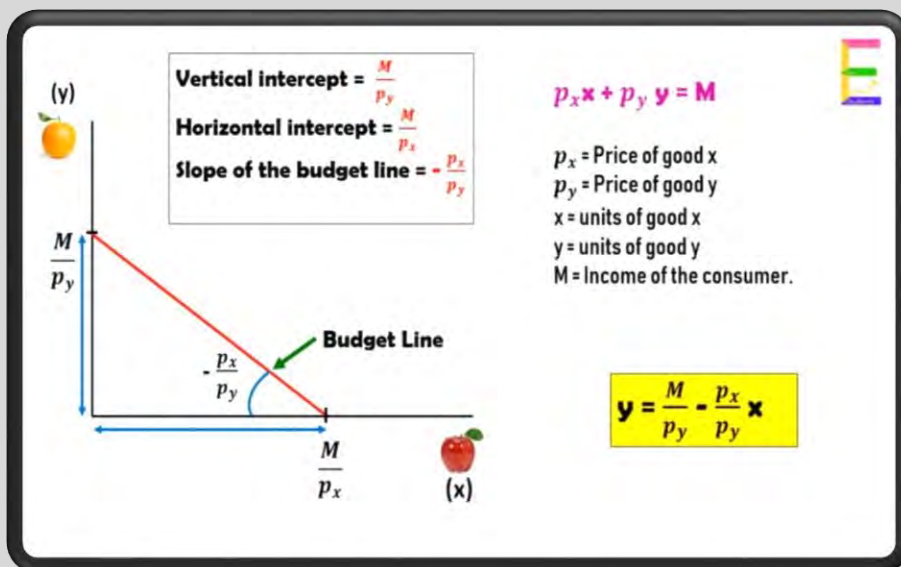
Biology teachers used simulations to teach and demonstrate the gene expression process.

Grade XI Chemistry – Simulation



Interactive simulations related to De Broglie wave Model and Diffraction Pattern were used to strengthen the concepts in Chemistry.

Grade – XI Economics – Graphs



Explanation for representing slope of the budget line in the form of Price ratio using graphs was done by the Economics teachers.

Grade XI – Maths – Whiteboard

The whiteboard session displays the following content:

- Top Header:** WHITEBOARD.fi, Room code: k6945
- Grid Content:**
 - Top Left:**

$$\sin 2x = 2 \sin x \cos x$$

$$\sin(A+B) = \sin A \cos B + \cos A \sin B$$
 - Top Middle:**

Diagram of a right-angled triangle with sides b , a , and c .

$$\sin \theta = \frac{b}{c}$$

$$\cos \theta = \frac{a}{c}$$

$$\tan \theta = \frac{b}{a}$$
 - Top Right:**

$$\sin^2 x + \cos^2 x = 1$$
 - Bottom Left:**

Handwritten notes on double-angle formulas:

$$\sin 2\theta = 2 \sin \theta \cos \theta$$

$$\cos 2\theta = \cos^2 \theta - \sin^2 \theta$$

$$\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$$
 - Bottom Middle:**

Handwritten notes on trigonometric identities:

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\sec^2 \theta = 1 + \tan^2 \theta$$

$$\csc^2 \theta = 1 + \cot^2 \theta$$
 - Bottom Right:**

Handwritten notes on trigonometric functions:

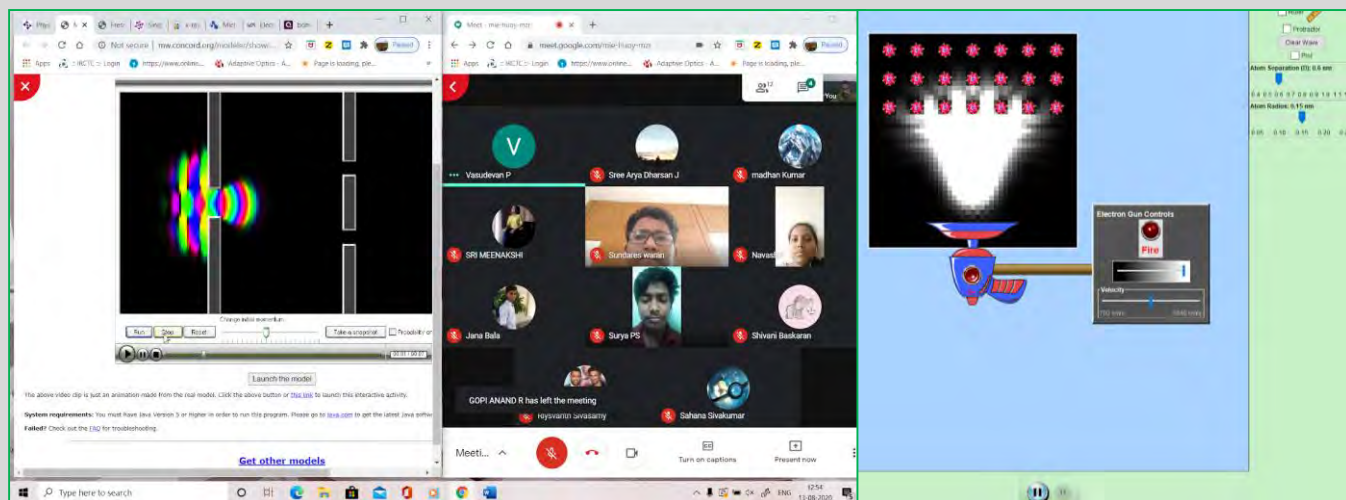
$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

Whiteboard was used to initiate the discussion on Trigonometric Functions during Mathematics class.

Grade XI Chemistry – Simulation

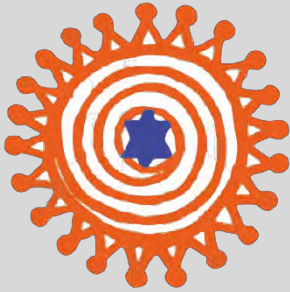


Chemistry teachers used interactive simulations to explain Electron Diffraction through a double slit pane and Davisson - Germer Electron Diffraction.

Grade XI – Biology – Recap of lesson



Students of grade XI recapitulated the concept
"Parts of a flower" using online tools.



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