Journey of National ICT Award

Manohar Subramanian, M.A., B.Ed.,

SECONDARY GRADE TEACHER,

PANCHAYAT UNION PRIMARY SCHOOL, VELLIYANAI,

THANTHONI BLOCK, KARUR DISTRICT,

TAMILNADU – 639 118.

Teaching Journey Started

Appointed as a Primary School Teacher on January 2002

Panchayat Union Primary School, Kattalai,
Krishnarayapuram Block, Karur District.

Transferred to - on August 2007

Panchayat Union Primary School, Velliyanai,
Thanthoni Block, Karur District.

21 years completed at Teaching Journey

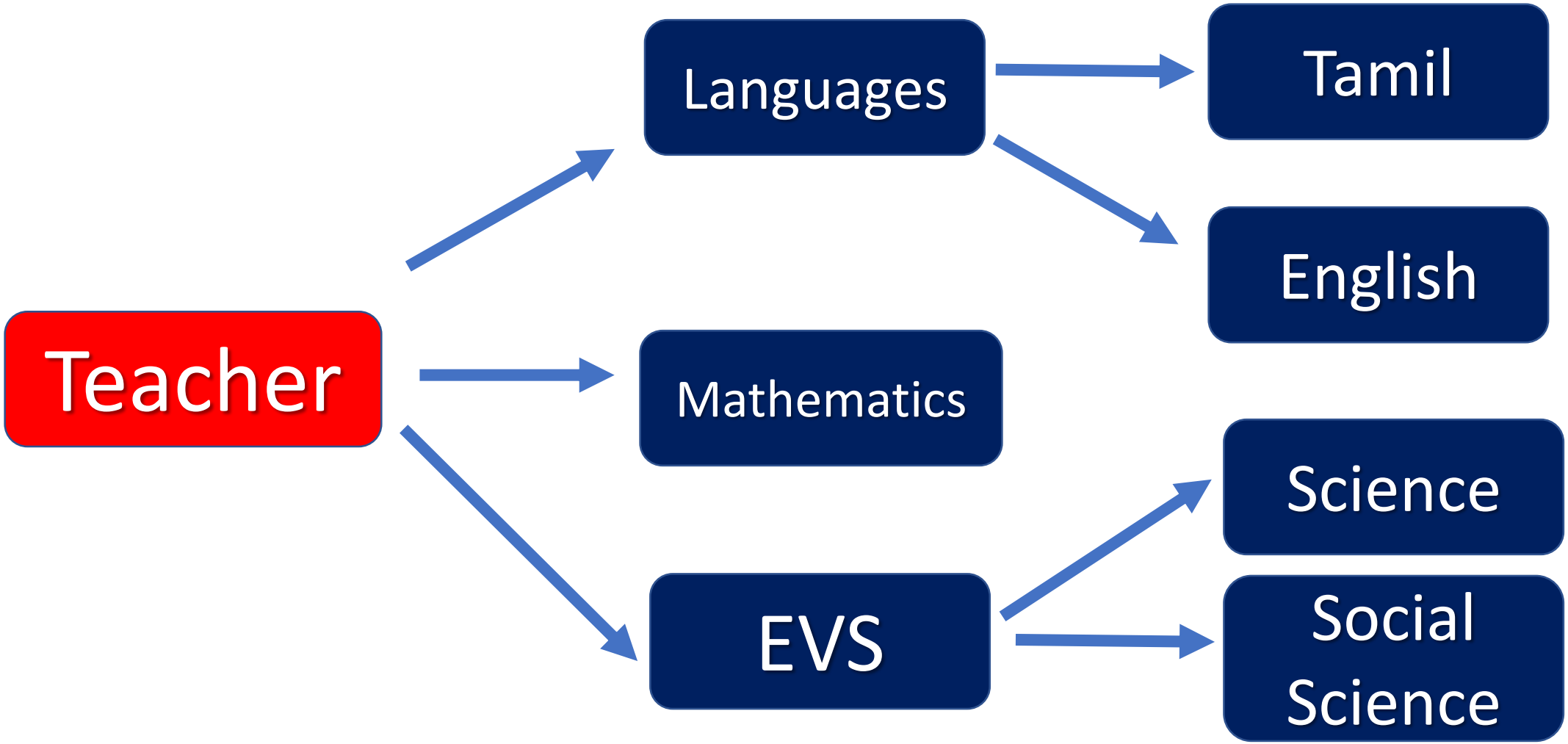
My School and Team

This is my School and Team.
My school is in a village.

My Class Room

This is my Classroom

Handling Subjects - Medium of Instruction : Tamil and English



As I am a primary School Teacher, I have to take all the subjects in Tamil and English Medium.
We are following Activity Based Learning for teaching FLN.

Hardware Devices having in My School

- 2 Desktops
- 3 Laptops
- 3 Tablets
- 1 Smart Board
- 1 Projector
- 1 Printer
- 1 Echo Dot
- 1 Echo show
- 1 Ring Light
- 1 Xerox Machine
- 1 WiFi Dongle
- 1 TV & DVD
- 6 Smart Phone
- 2 Speaker & Mic
- 1 Smart TV
- 1 Radio
- 1 VR Head set
- 1 Collar Mic

Software using in My School

Diksha & TNTP	Starfall Word search	ClassDojo
Open Shot / Camtasia	AssemblrEdu 4 D Apps	Nearpod, Buncee
Audacity Video Editor	Kahoot, Forms, Plicker	Minecraft Flipgrid
Tux Paint Tux Math	Zoom, Teams, Meet	Live Worksheets Learning
Wakelet & Sway	GeoGebra, Gcompris	Merge Cube QR Code App
Adobe Spark Paint 3D	PhET, Olabs	One Note , Skype

ICT Environment in School

ICT Environment School Location : 5 Classrooms

Internet Type : Wi-Fi Dongle

Internet Availability : During School hours only

Location of Internet Availability : Separate Dongle in 5 Classrooms

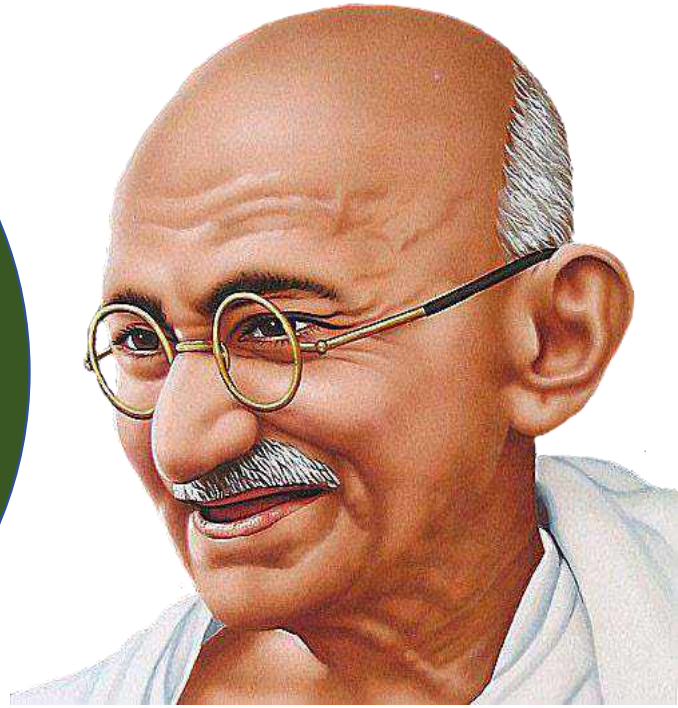
Hardware Devices : Smart Board / Laptop / Desktop Etc.,

Software : FOSS Tools / Web Tools / Mobile Apps / MS Tools / Adobe Tools

We have a good ICT Environment in my School.

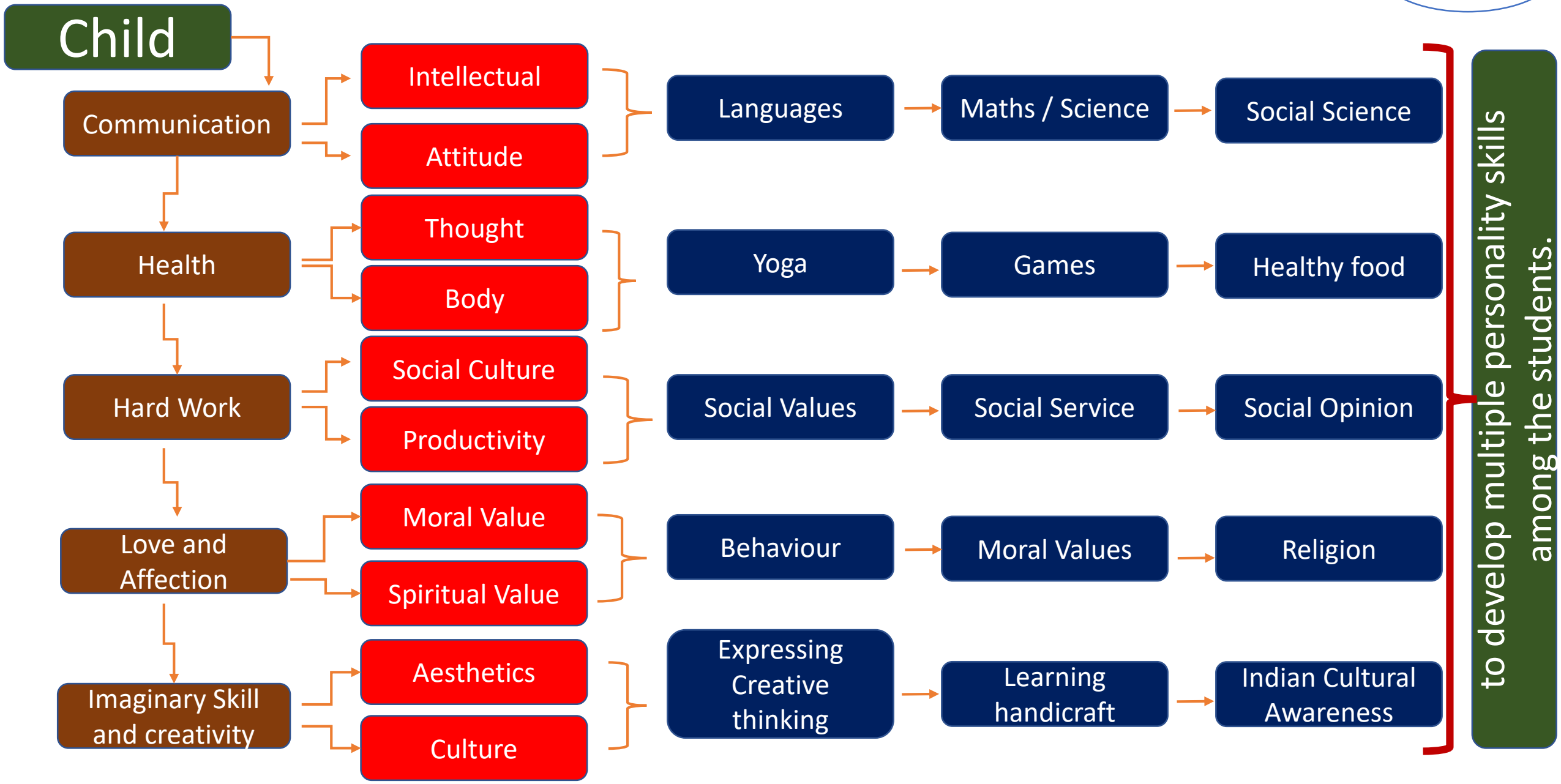
Child Centered Wheel

"By education, I mean an all-round drawing out of the best in the child and man-body, mind and spirit".



Based on Child centered wheel and Gandhiji's Quote,
We have formed 15 Activities at my School.

My ultimate Aim of Teaching Learning Process by Using ICT



Responsibilities and Activities

- Using ICT Tools in Languages and Subjects.
- Playing Puppet Shows
- VIPNET Science Club
- Zero Hour Speech
- Yoga the Way of Life
- Dhoni in my School – Physical Education
- Food Festival
- National Green Corps Activities
- Bharat Scouts and Guides Activities
- All Faith Prayer
- CCRT Cultural Activities
- Zero Waste Management and Zero Investment Innovations
- Projects – Pasumaiyal Nirappuvom, Planting trees with Pet Name, WE School for fund rising,

I am doing 6 activities, including ICT under my responsibility.

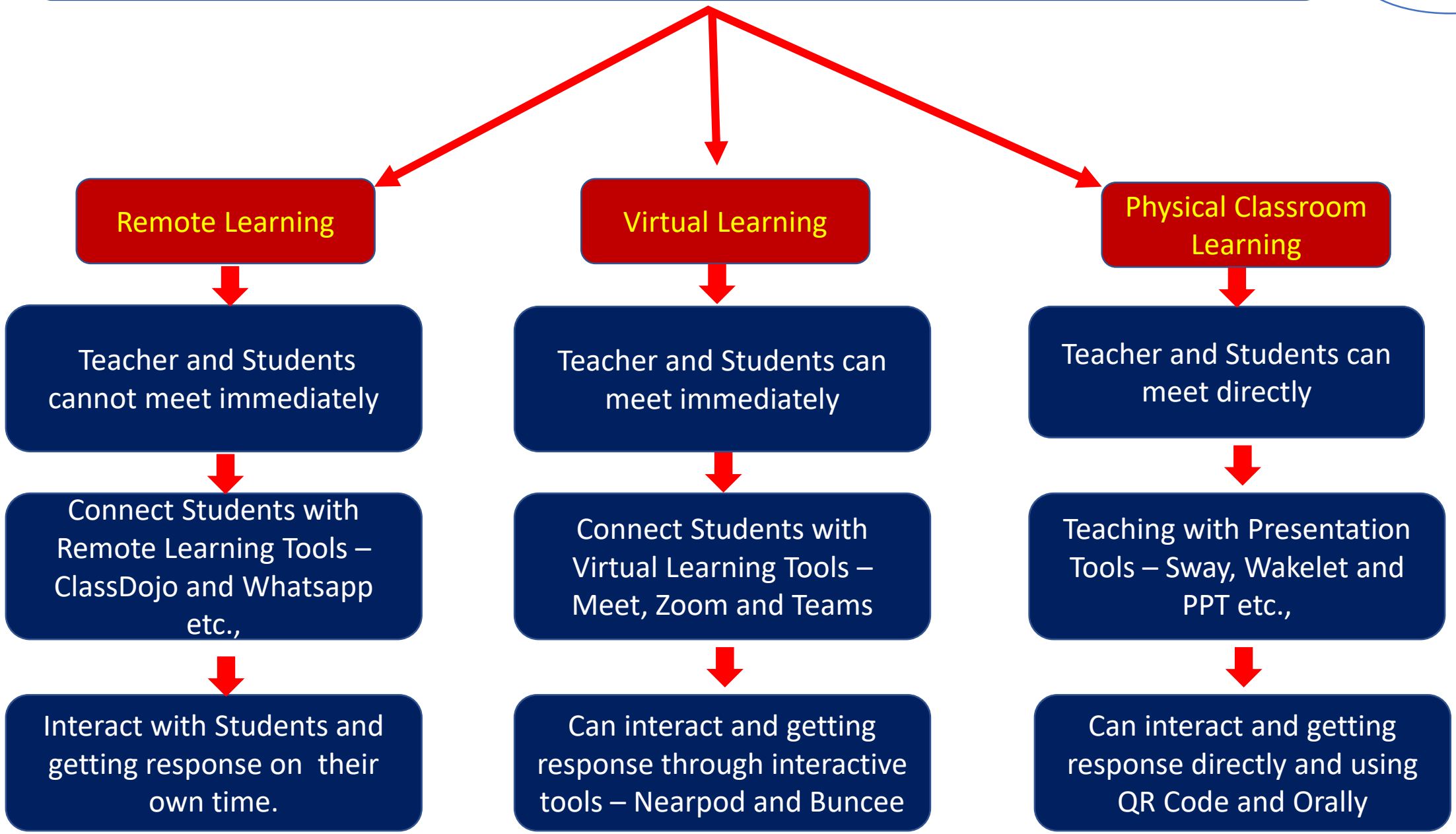
Focusing on SDG's 3,4,5,6,13,16 & 21st Century Skills

Goal No:

- 3 Good Health and Well Being
- 4 Quality Education
- 5 Gender Equality
- 6 Clean Water and Sanitation
- 13 Climate Action
- 16 Peace and Trust

- Critical Thinking
- Collaboration
- Communication
- Creativity

Teaching Learning Process – Strategies



Physical Classroom Learning Strategies

The following aspects of Classroom interaction with Students Augmented:

1.Planning :
Using Presentation Tools like sway with combine of needed tools to Present in the Class.

2. Learning skills and competencies implementation method:

RAINBOW activity will be following in the manner of

Reading	: Immersive Reader
Activity	: Minecraft / PhET / Olabs
Implement	: OneNote
Net refer	: Google Assist / Echo Show
Book refer	: Library / Digital Library
Oral Practice	: Flipgrid
Written Practice	: Google forms / Worksheet

3. Managing:
Instruction will be given to follow the Steps of RAINBOW.

4. Researching :
How the Students involved in the learning steps by using ICT Tools

5. Creating:
Creating the students to do the projects in a particular skill innovatively.

6. Skills developing:
1.Communication
2.Collaboration
3.Critical Thinking
4.Creativity
5.Innovation
6.Problem Solving

RAINBOW – Rotational Activity

Reading

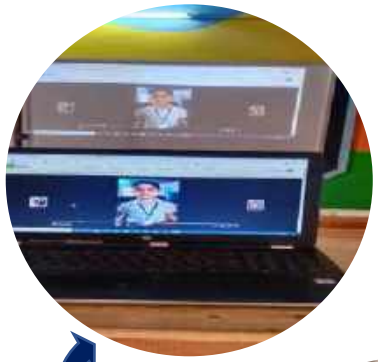
Activity

Implement

Net refer

Book refer

Oral Practice



Written Practice

I am using these steps again and again.

This Activity Rotation helps me to give individual attention to every students.

Sample Presentation and Interacting

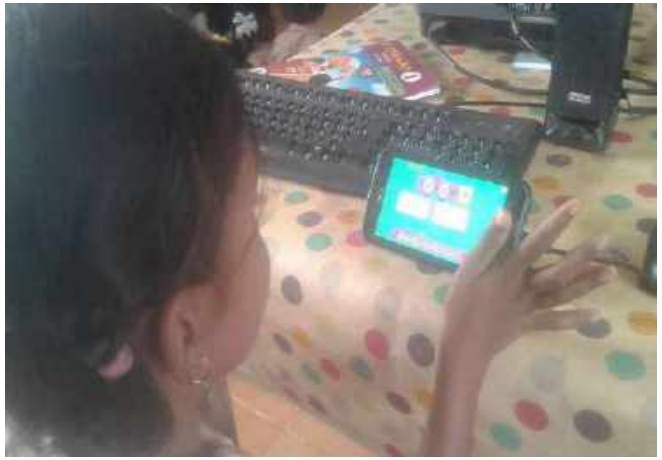
Presenting

Discussing

Explaining

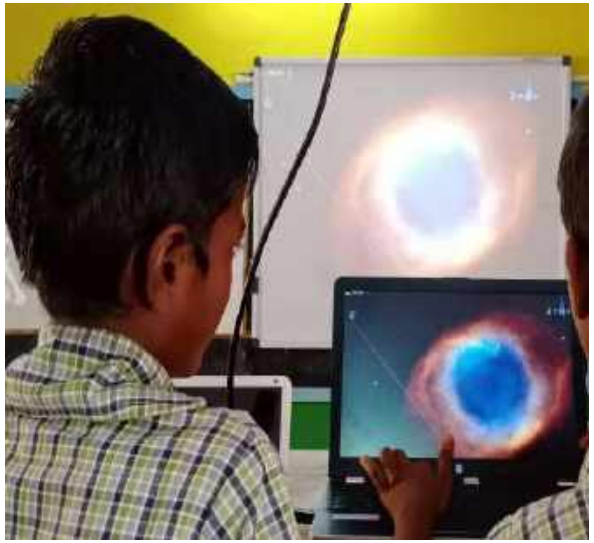
Interacting

I am using some ICT Tools whichever is applicable in RAINBOW Steps.



Individual Learning

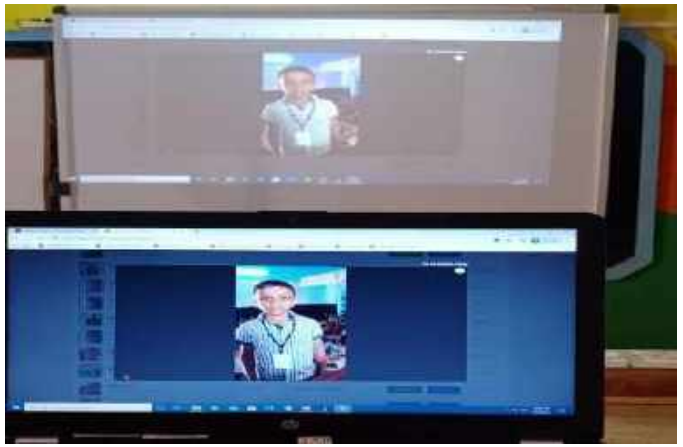
Tux Paint, Tux Math and Gcompris



My students are enjoying with Tux Paint. It combines an easy to use interface, fun sound effects and encouraging the cartoon creation. Tux paint is helping me to teach basic shapes, perimeter and area.

There is a lot of high quality of educational software available for primary students. My Students are enjoying a lot. Gcompris helps me to improve the students creativity, reading, arithmetic, science, Geography skills and to learn chess game.

Using Geogebra, Olabs, PhET, Adobe Spark, Flipgrid and Wakelet



Using Geogebra for Mathematics, Olabs for English Grammar, PhET Simulations for science, Adobe Spark for creating simple graphics, Flipgrid for oral practice and wakelet for collections.

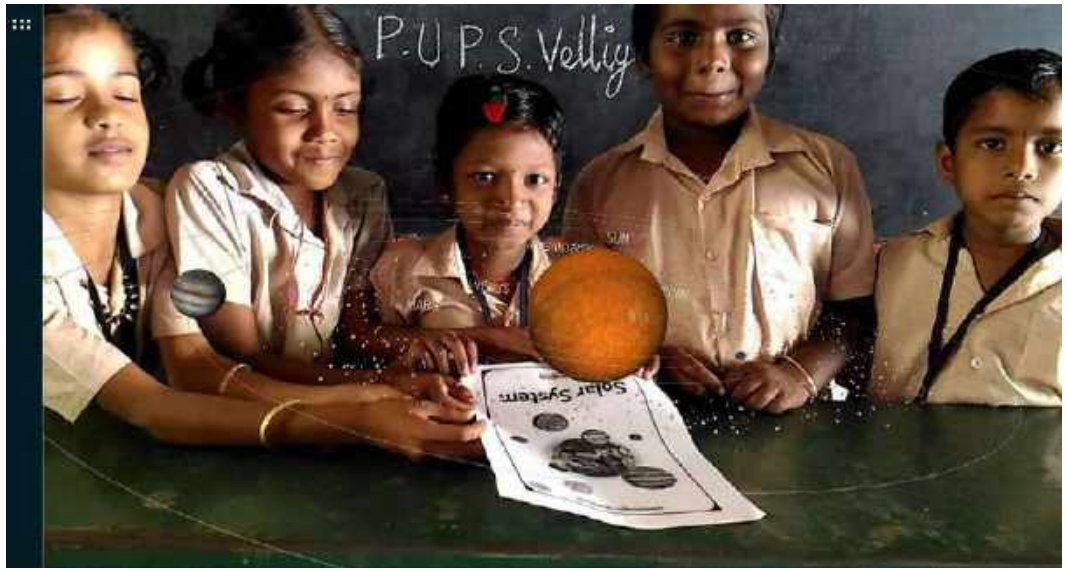
Using Google assist, Cortana and Immersive Reader, Word search app

Finding facts and definitions by using students voice. Google Assist helps the students to improve searching skills and pronunciation skills.

Word Search App helps to improve vocabulary.

Reading with the help of immersive reader. Immersive Reader helps to build the students confidence in reading English with proper manner.

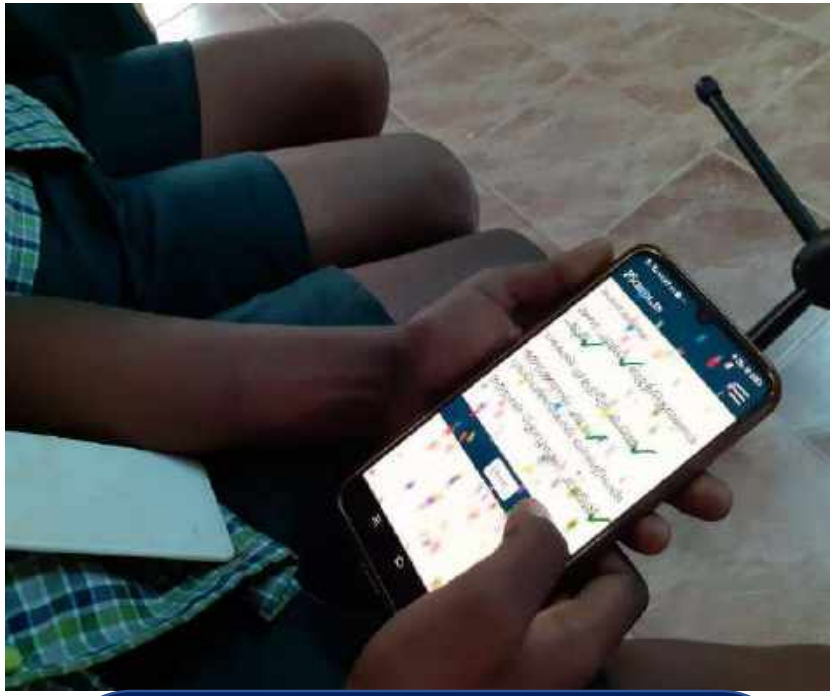
Using Space 4D App and other virtual apps



4 D apps help me to improve teaching learning process with a little augmented magic. My students are enjoying a lot. I am using smart phone to record 4D visuals and project into whole class. Students feel so happy and understand the concept.

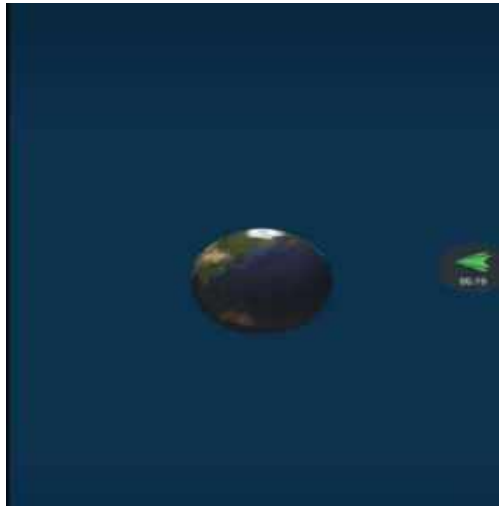
Using Merge Cube and Pschool.in App

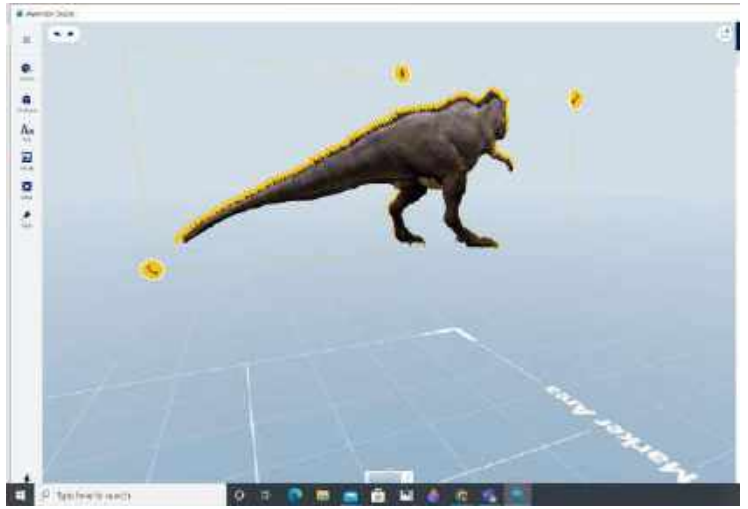
Merge cube helps students to learn STEM effectively with 3D objects and simulations they can touch, hold and interact with. Toys create the future of every students. Primary students want to play with toys. My Students are enjoying with merge cube in solar system.



Pschool App has a tons of Activities for Primary Students in all Subjects. Pschool app improves students Tamil Reading, vocabulary building and math fun activities.

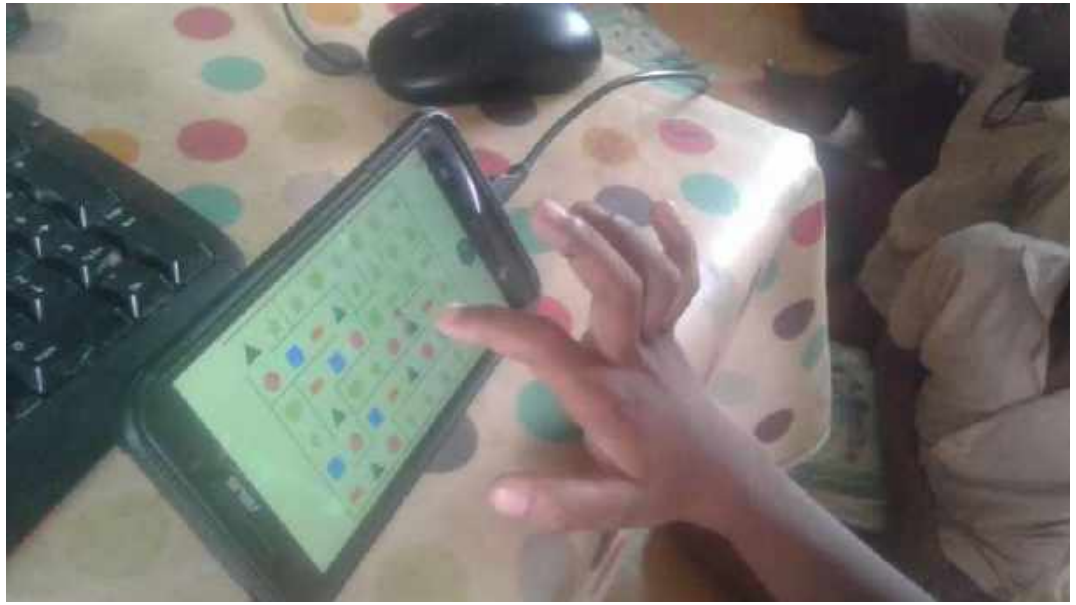
Using Assemblr Edu





Assemblr helps the students to create a more accessible and exciting learning experience in 3D & AR at Primary Level. I am turning into Assemblr Edu to create lesson plans for giving visualization and simulation. It is Easy to create 3D & AR experiences for primary students in mathematics, Science and mapping.

Using Starfall App and Word search App

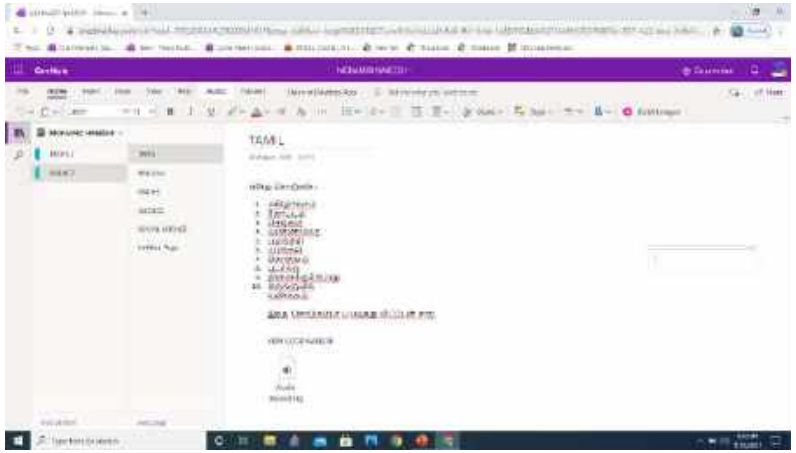


At Starfall and word search app, Children have fun while they learn. I am using these apps to learn mathematics and English. Students can enjoy a lot in mathematics and read a lot of stories in English. It's a fantastic free software for primary school Students.

Using One Note

Created Students Profile and activities

Learning from their profile



Activities done by the students

Created digital note books for every students. They learn from their pages. Take notes and draw their ideas. Share Note books to collaborate. This will help the students to improve 21st century skills such as Creativity, Communication, Collaboration and critical thinking.

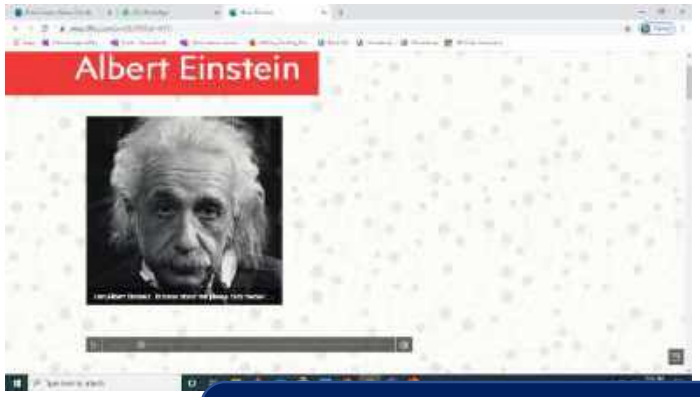
Minecraft Activities

The purpose of this game is Simply to build and Explore. Students are trying to build for learning mathematics and Science, and enjoying a lot in playing. This will help the students to develop creative skills.

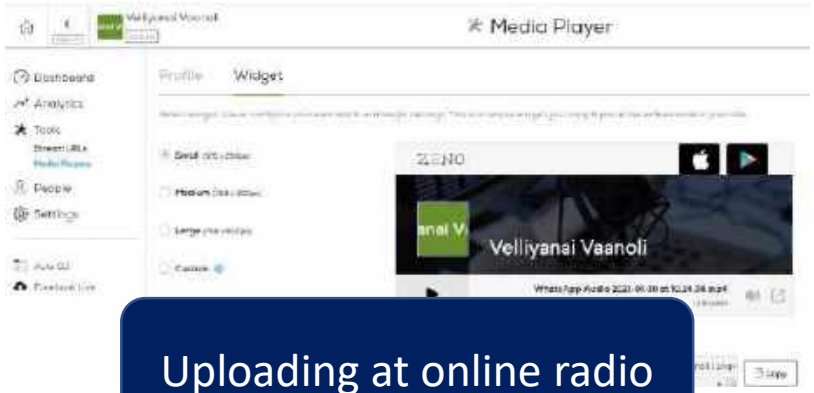
Audio Lessons through Zeno Online Radio

Creating Audio Lesson

Final Audio Lesson



Uploading at web pages

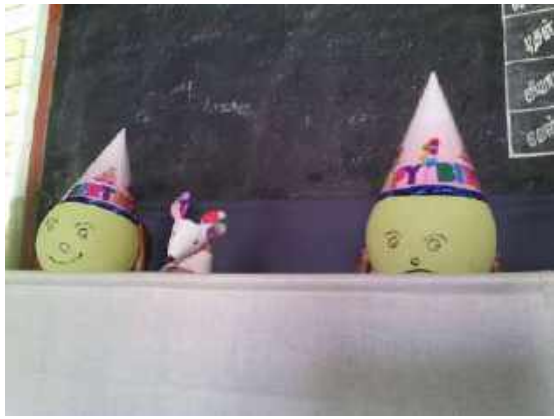


Uploading at online radio

Student listening Audio lesson

We have a online Radio and sending audio lesson through the link. Students can hear the lessons from smart phone. Help the students to improve listening skill.

Puppet Show



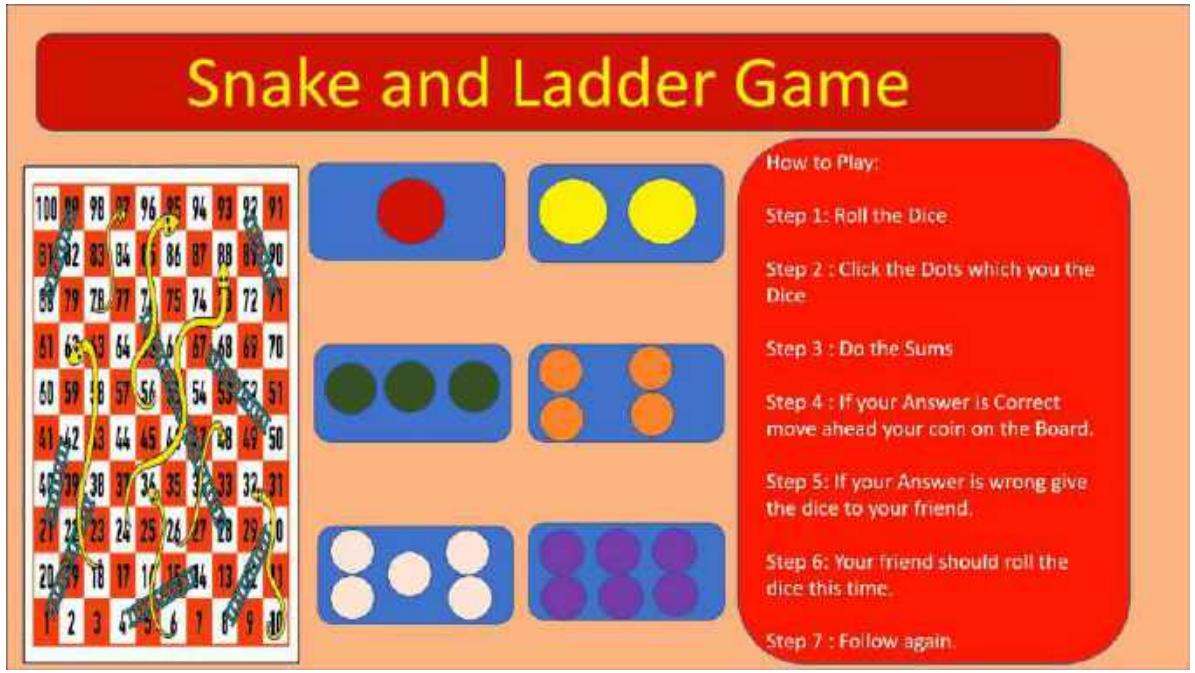
Using Audio tools and devices to present the lessons through the puppet show

Devices Gifted by Wakelet for winning WTD Contest

VR Head set, Digital Writing Pad, Digital Drawing Pad, Alexa Echo Dot, Alexa Echo Show, Tab, cordless mike, Voice Recorder mike and Web Camera.

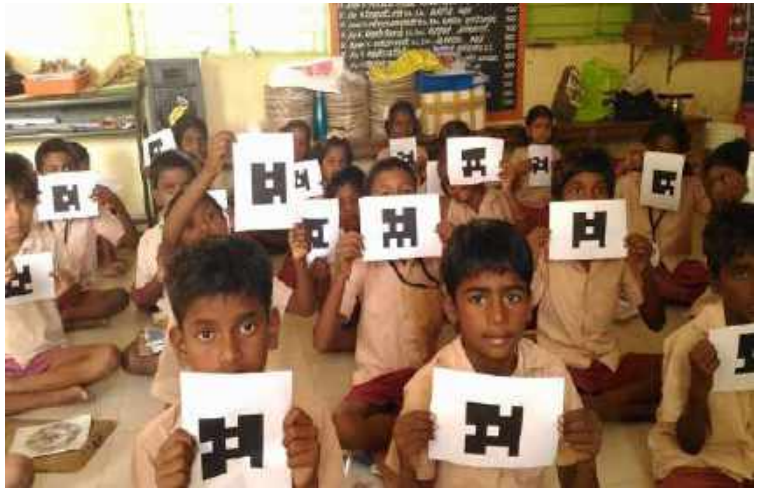
Using Alexa app with Echo Show for Video search and Echo Dot for Audio Search

Using Power Point



Created snake and Ladder game by Using Power Point Animations and Hyperlink.

Plicker Tool

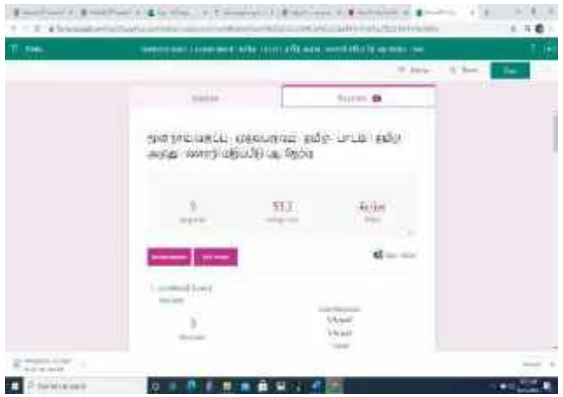


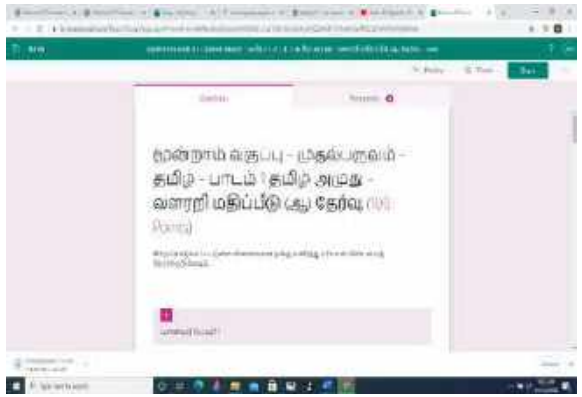
Using Plicker tool to assess the students during the class. This will help me to give attention on slow learners.

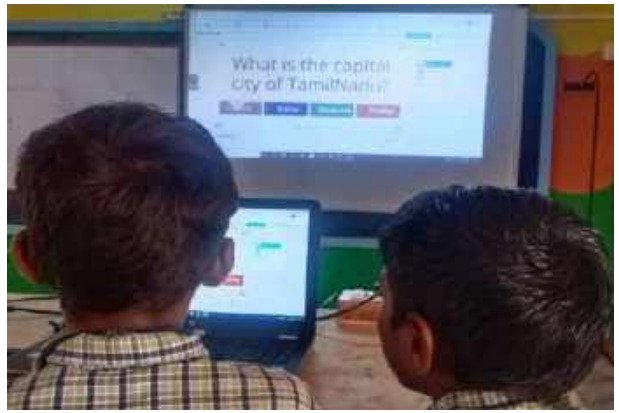
Using Interactive Live worksheets

This will help the students for self Evaluation.

Google forms Microsoft forms and Word Wall

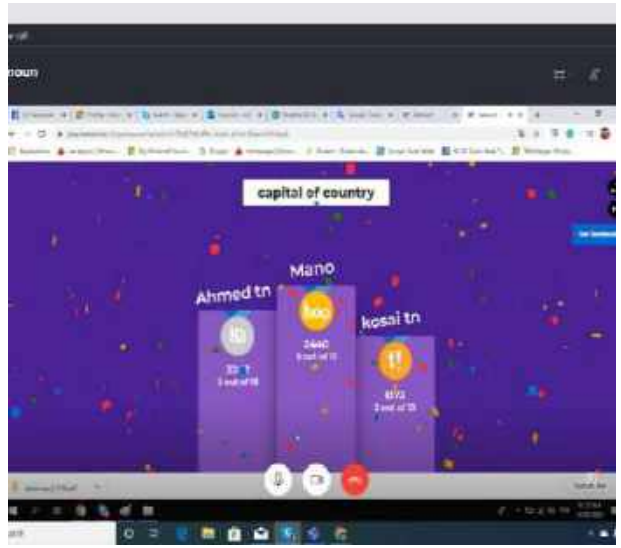






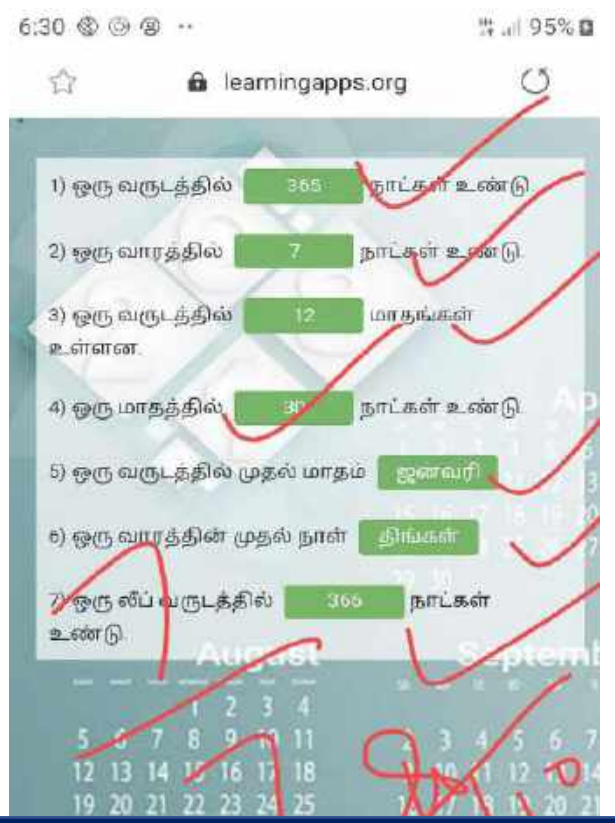
Using forms and word wall as a game based assessment and students get smiley badges as reward.

Using Kahoot



It’s a Game – Based Learning tool. It is used to make fun in the classroom.

Using Learning App



To support Teaching Learning process with small interactive tool. This will help the students for self Learning

QR Code Identity Card – Integrated the Tools which I am using in Teaching Learning process in one platform by using Microsoft Sway URL.

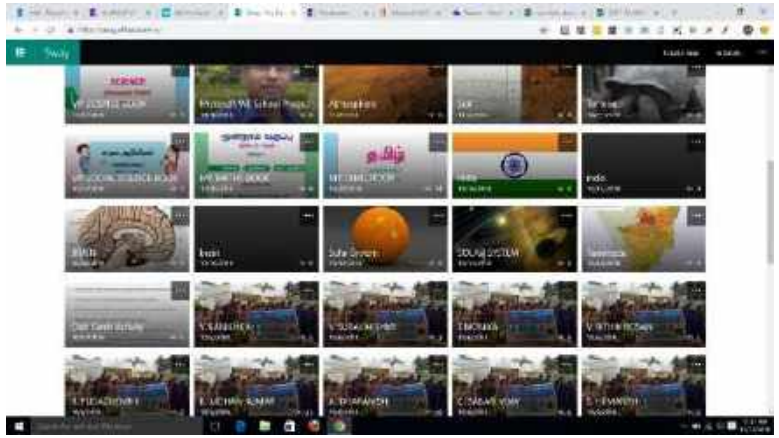
Created QR Code Identity card with Profile E-book and assessment

Learning by scanning QR code

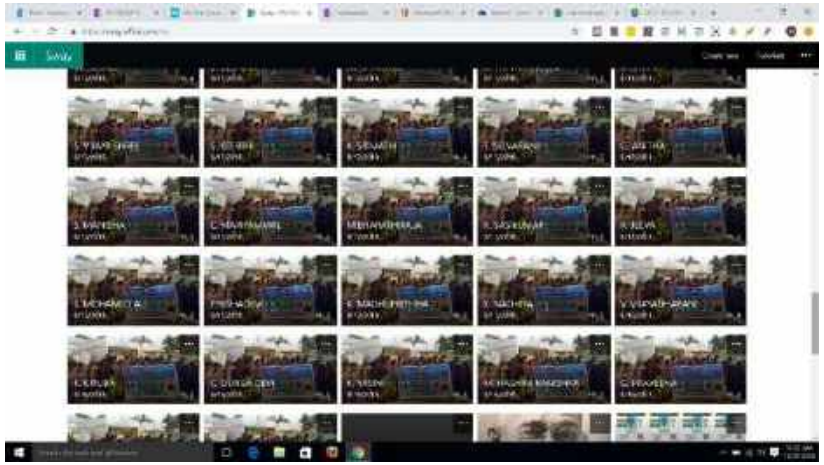
Interacting with teachers through smart phone

Watching video lessons by scanning

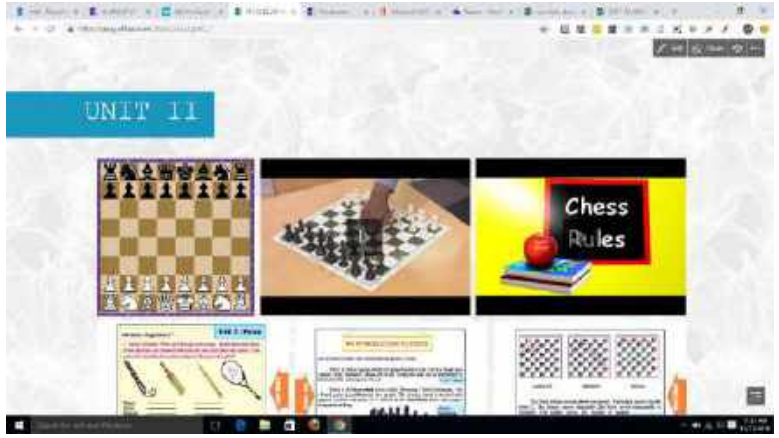
Integrated lessons with QR Code ID Card



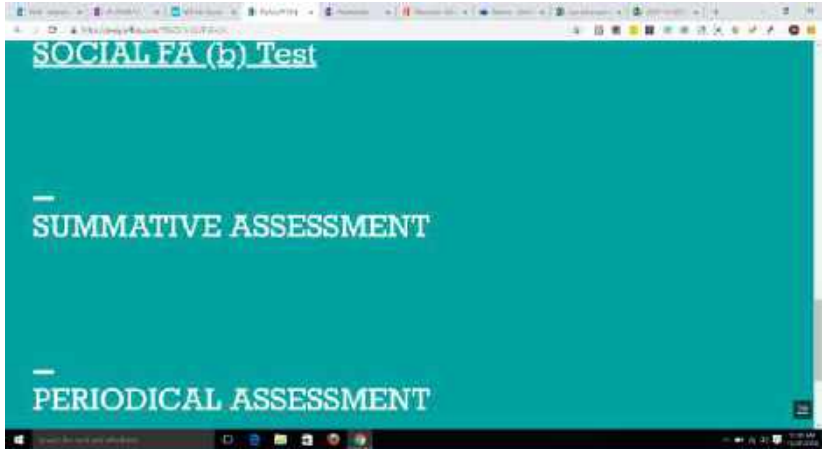
Created and shared 1000's of Lesson from digital Library



Created Portfolios for all Students to maintain records



Send Text. Images, Audio, Videos in single click



Send Assessment and interactive link through ID card

Integrated classroom activities

Integrated lessons

E – Book

Mobile apps activities

Class room assessment.

Sending Home works / Assignments through QR Code Identity card

Sending Home work, Assignments, Announcements, Audio and video lessons, Activities, worksheets, Newsletters and more through QR code Identity card. Students get all by scanning QR Code from their ID Card.

Using DIKSHA QR Code

Students are using Smart phone and Laptop to Scan DIKSHA QR Code from the Text Book

QR Code Students Attendance Android App

Srina Ramachandran

3065

THIRD STANDARD ENGLISH MEDIUM

Generated by SimcopySoft SAM

Panchayat Union Primary School, Velliyanai.

ஊராட்சி ஒன்றியத் தொடக்கப் பள்ளி வெள்ளியனை

Using QR Code Attendance (SAM) App through ID card.
Students show their QR Code on Teachers smart phone. They can register their attendance and teacher can get report through Excel sheet.

Remote Learning Strategies

Connecting Students with ClassDojo and Whatsapp

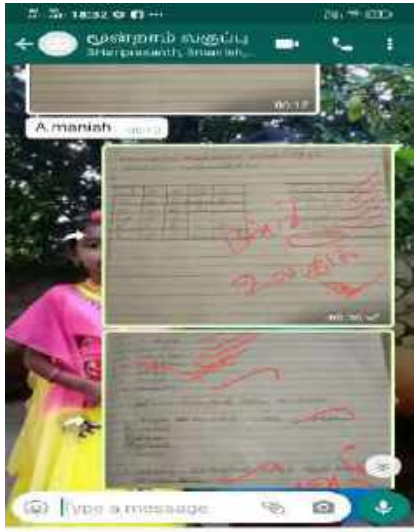
Sending and receiving Lessons in Text, images, audio, video mode, drawing and interactive tools.

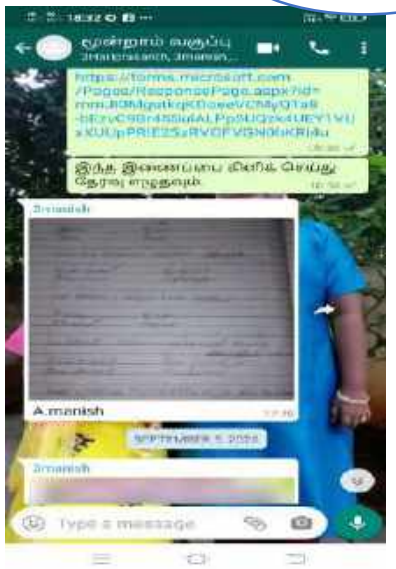
Can send worksheet and Assessment activities

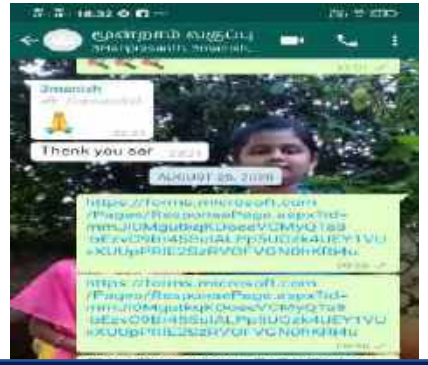
Can maintain Digital Portfolios for each Students.

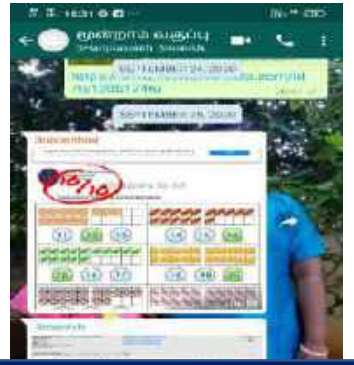
We can create a positive culture in developing skills and values.
So I am using ClassDojo.

Using Whatsapp also for remote learning









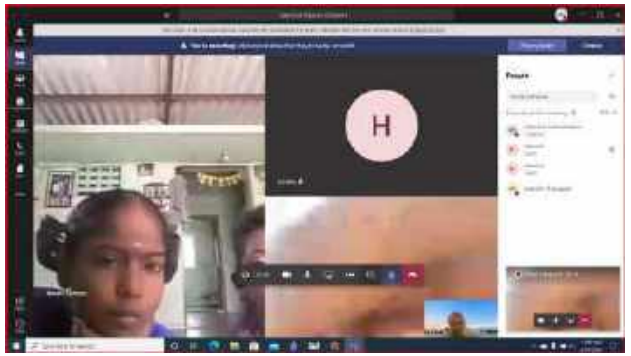
ClassDojo helps the students to showcase their learning by adding photos videos to their own portfolios. But we can't in whatsapp. Students get more improvement in (LSRW) Listening, Speaking, Reading and Writing.

Virtual Learning Strategies

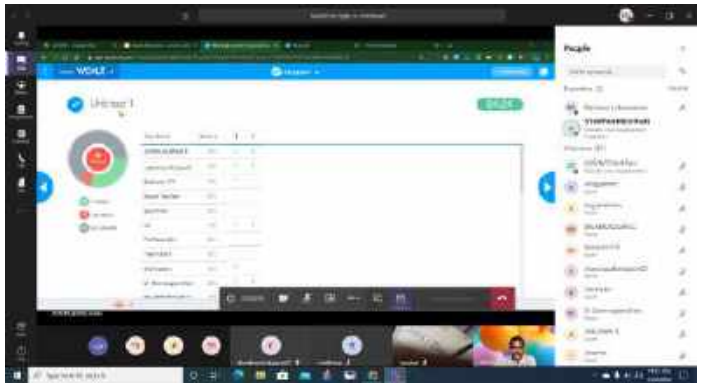
Connecting Students By using Google meet / Zoom / Teams

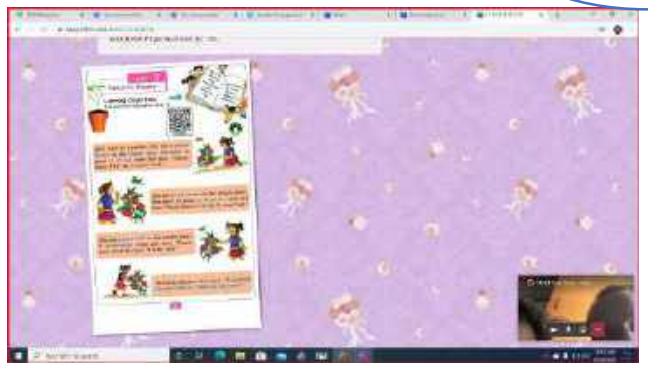
Steps followed :

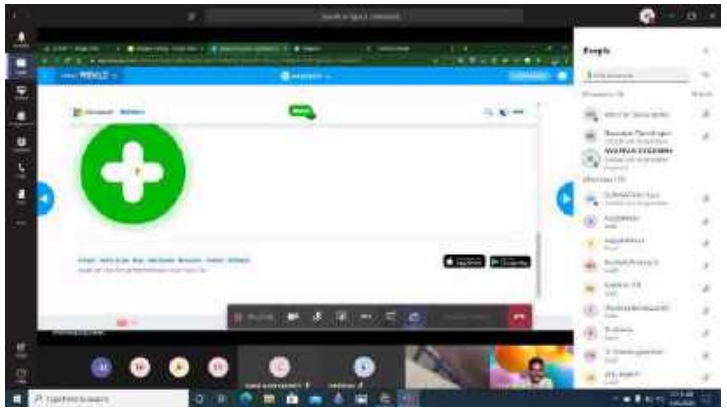
- Meet students virtual mode
- Explaining Lesson using wakelet
- Interacting with Nearpod and Buncee
- Getting response by Padlet
- Sending google / MS forms to Assess

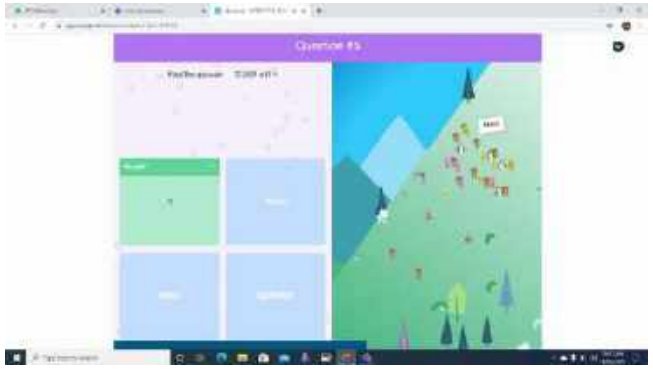


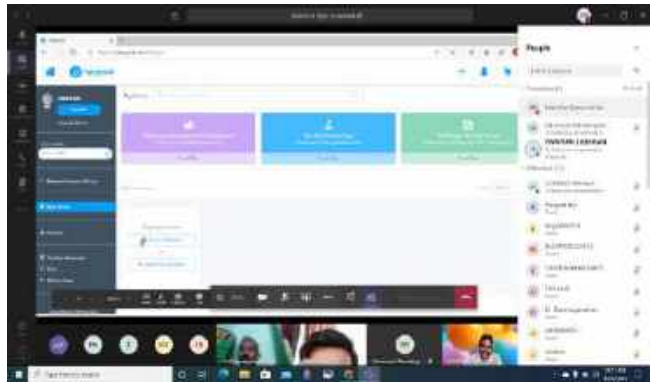
Responses from Students











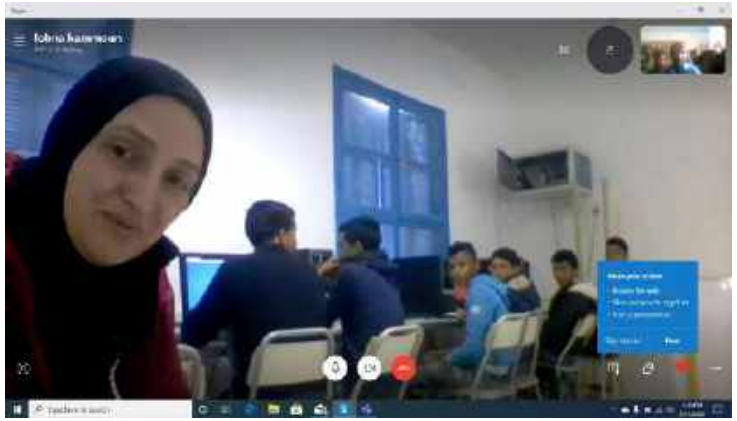
While virtual learning I am getting students' responses through interactive tools like nearpod and buncee. It helps to understand the students' level of engagements.

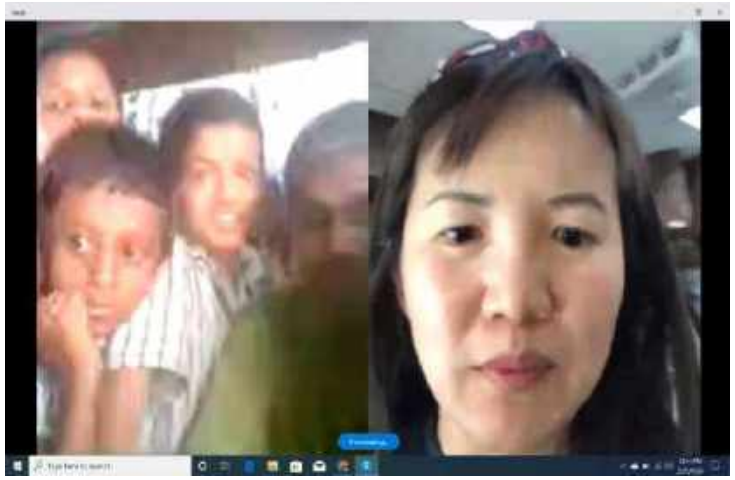
I am encouraging a collaborative learning environment by using interactive tools in virtual learning

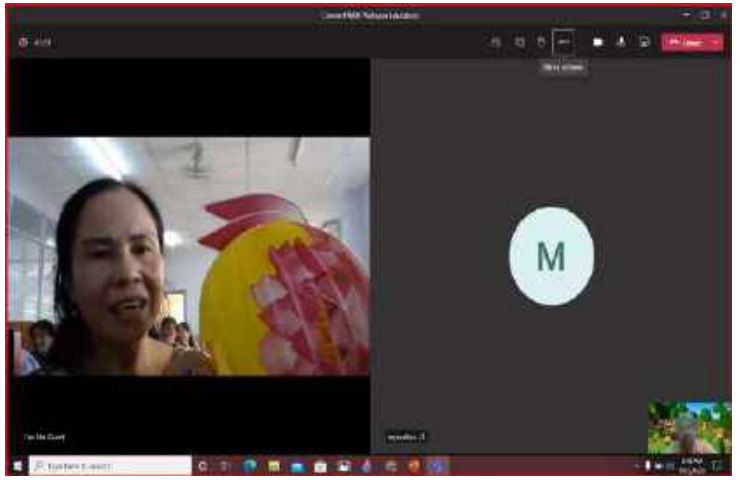
Created QR Code ID Card for CWSN and DIVYANG to a special school Children near my home.

Helping Deaf and Dumb Students to learn lesson by Scanning QR Code Identity Card with the help of their teachers. I am helping Anbalayam special school to use ICT in education. Students can use their smart phone to learn subjects themselves.

Connecting Skype in the Classroom for Global Experience and virtual experience

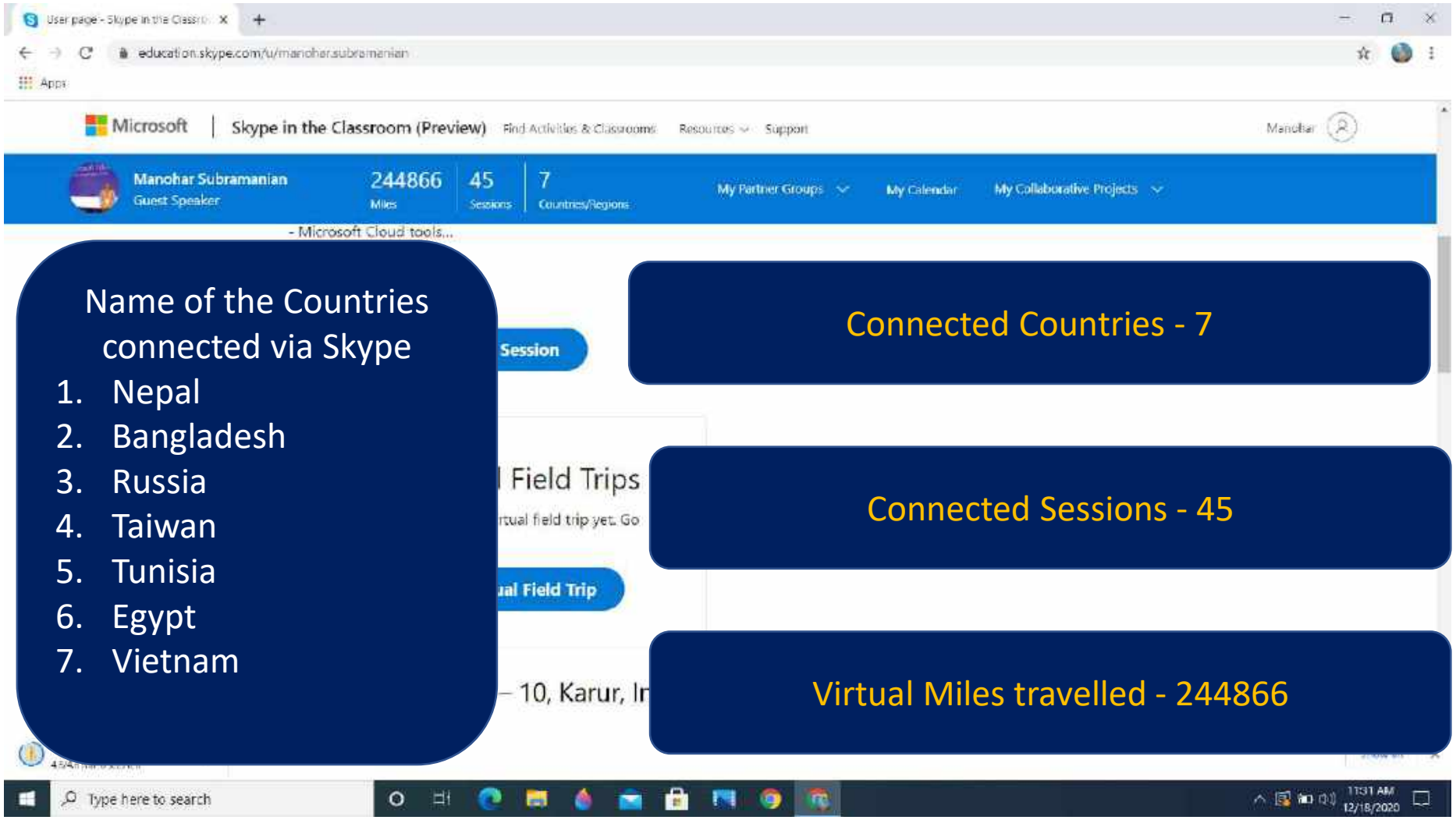






We have connected with Tunisia, Taiwan, Nepal, Vietnam, Russia, Egypt and Bangladesh for some collaborative Projects.

Participating Skype in the Classroom



Name of the Countries connected via Skype

1. Nepal
2. Bangladesh
3. Russia
4. Taiwan
5. Tunisia
6. Egypt
7. Vietnam

Connected Countries - 7

Connected Sessions - 45

Virtual Miles travelled - 244866

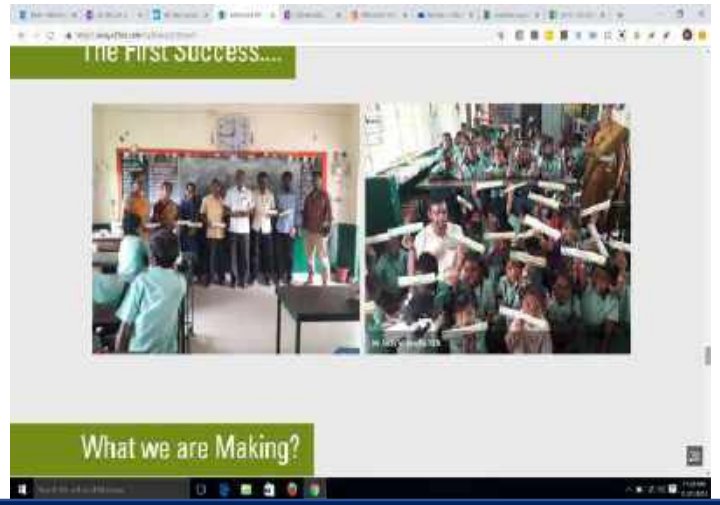
Following WE School Program for Fund rising to make an ICT Environment.

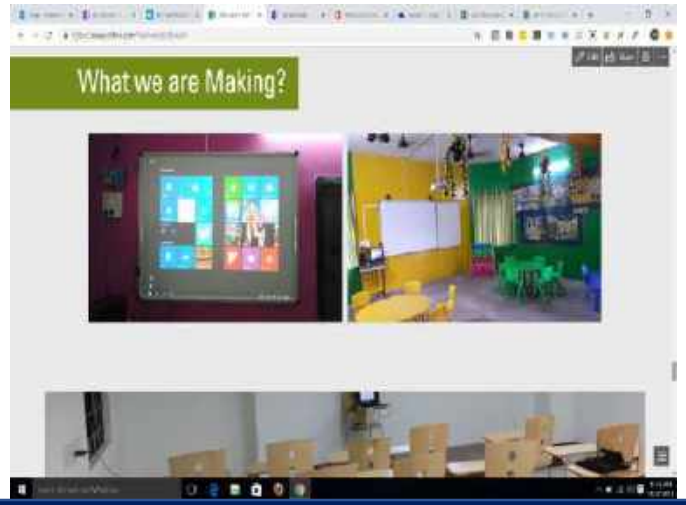
Steps:

- Investigate and Learn
- Action Plan
- Take Action
- Report and Celebrate

We have collected nearly three lakhs rupees cash and materials till now.

#ME TOO Hash Tag for Fund rising





Using #ME TOO Hash tag to spread WE SCHOOL Program among the parents and public for collecting ICT Devices.

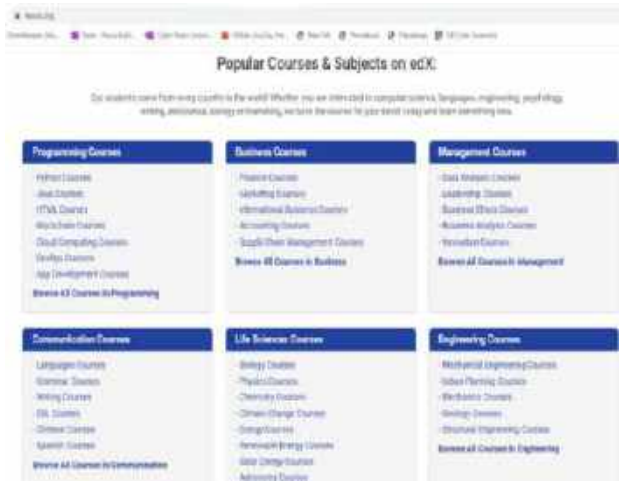
Done a Project on Cyber safety and Security, Competitive exams

Introduced about cyber safety & Security and any exams to write with out fear

Following Health and Well Being - Guidance and Counselling

Often we Conducted a program for Yoga, guidance and counselling and mental health. This will help the students to reduce their stress.

Swayam, MOOCS, Microsoft and Adobe



Learned above 200 courses from Microsoft, Adobe, Swayam, MOOCS and DIKSHA for my professional growth.

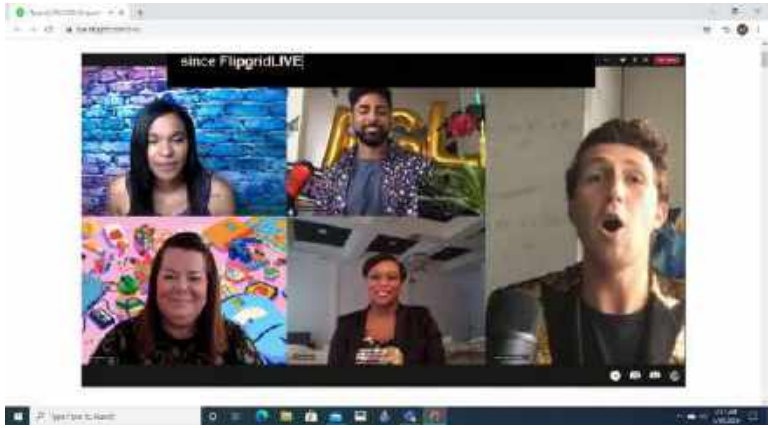
CIET – NCERT online Webinars

Learned some new tools from CIET – NCERT online webinars for my professional growth.

Participated at District and State Level ICT Workshops

To improve my ICT Knowledge. This will help me to think about innovative teaching methods by using Technology.

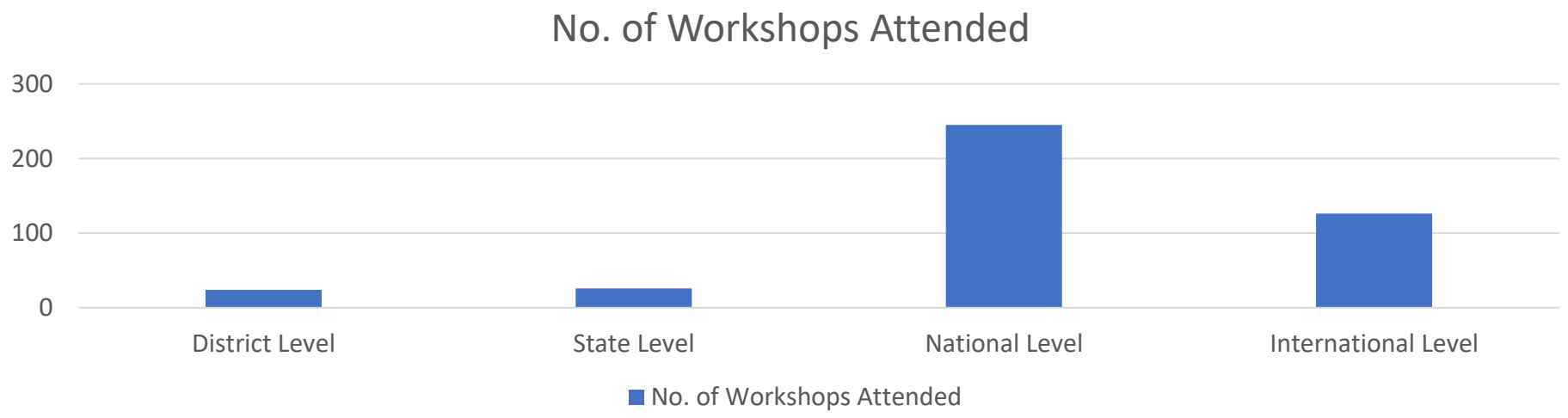
Participated at National and International Level ICT Programs



Experienced with National Level Teachers.

Total No. of ICT Workshops Attended 481

Sl. No.	Level	No. of Workshops Attended
1.	District Level (Physical and Virtual Mode)	24
2.	State Level (Physical and Virtual Mode)	86
3.	National Level (Physical and Virtual Mode)	245
4.	International Level (Virtual Mode)	126



Promoting ICT Awareness Program to District and State Level Teachers

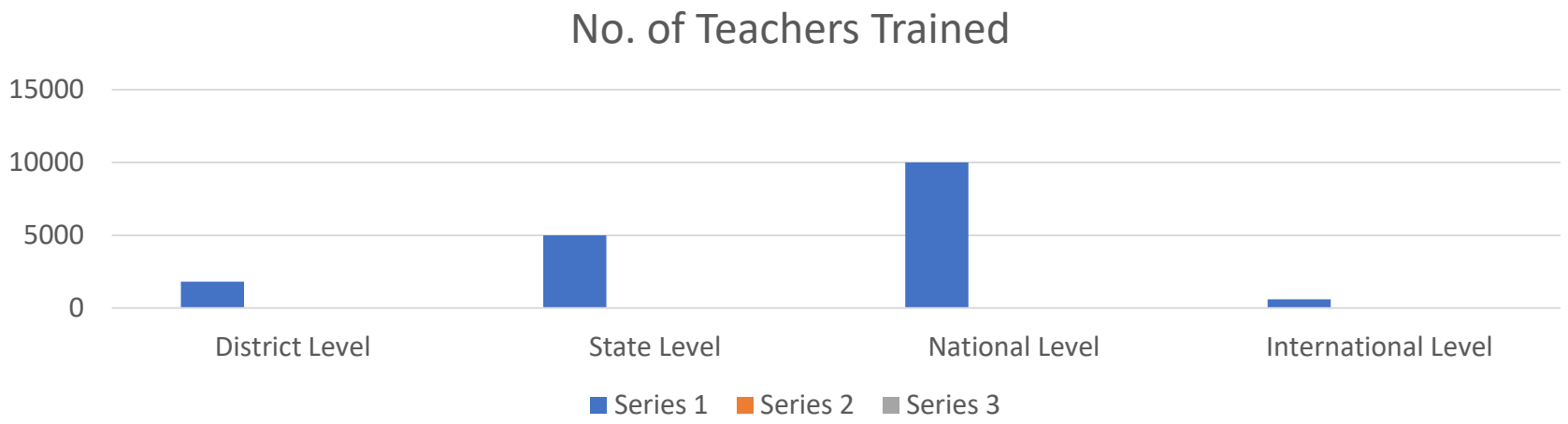
Promoted ICT initiatives to District and State Level Teachers

Promoting ICT Awareness Program at National International Level

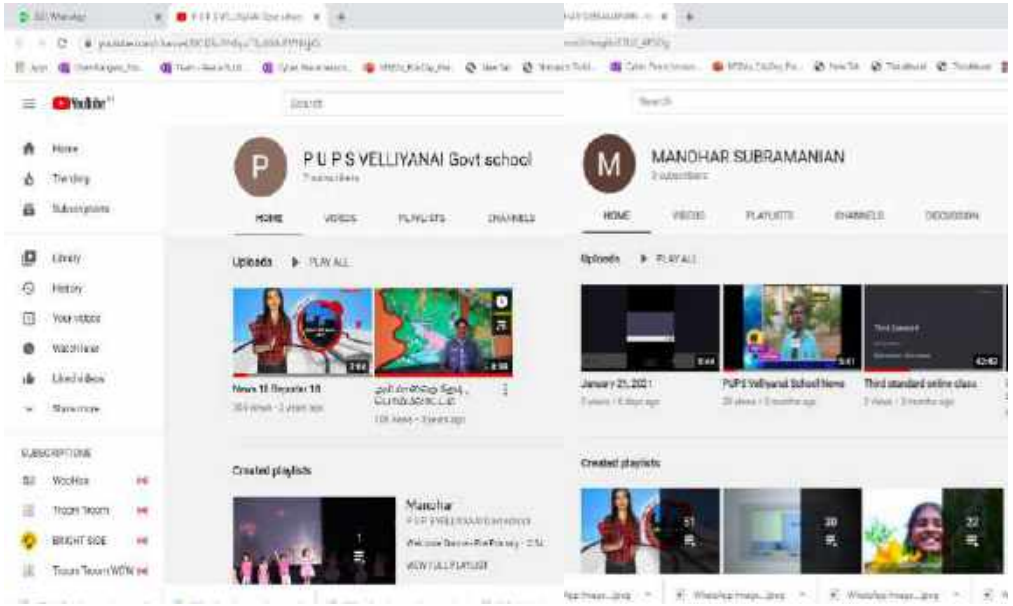
Promoted to National and International Level Teachers

Total No. of Teachers Trained (Approximately) 20000

Sl.No.	Level	No. of Teachers Trained (Approximately)
1.	District Level	1800
2.	State Level	5000
3.	National Level	10000
4.	International Level	500

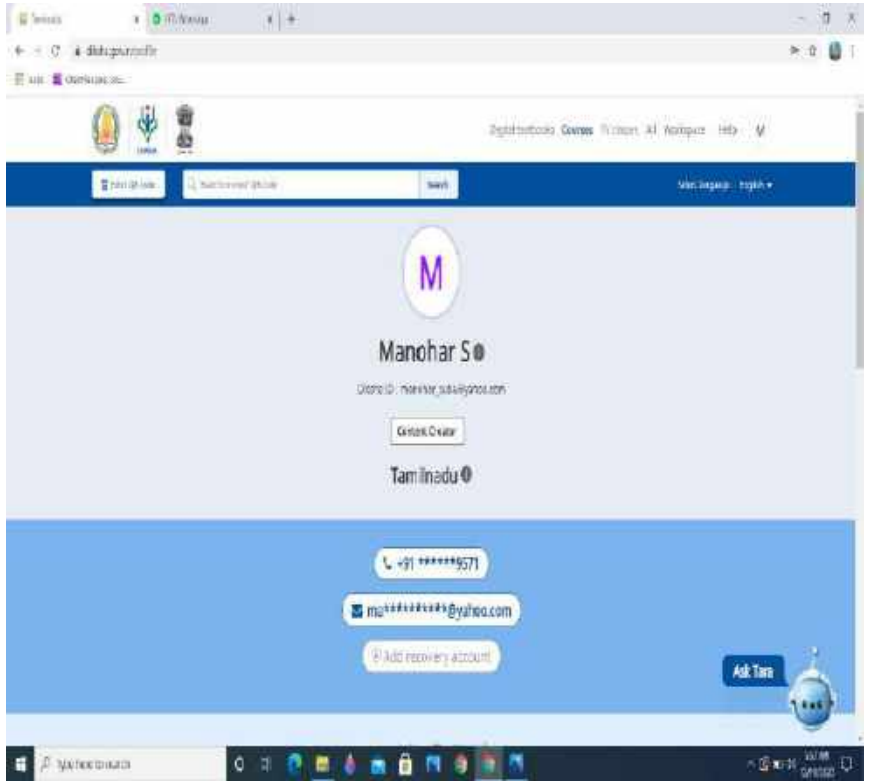


Sharing through You Tube Channel & Facebook page



Shared my lessons and ideas through You tube Channel and Facebook to teacher community.

Contribution in DIKSHA and NCERT



I have contributed to DIKSHA and NCERT .

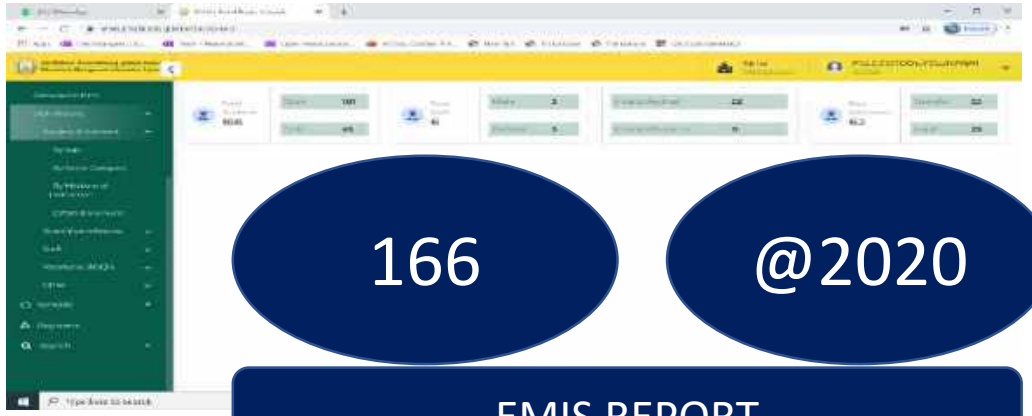
Contribution in LMS for Teaching Learning Assessment and SCERT

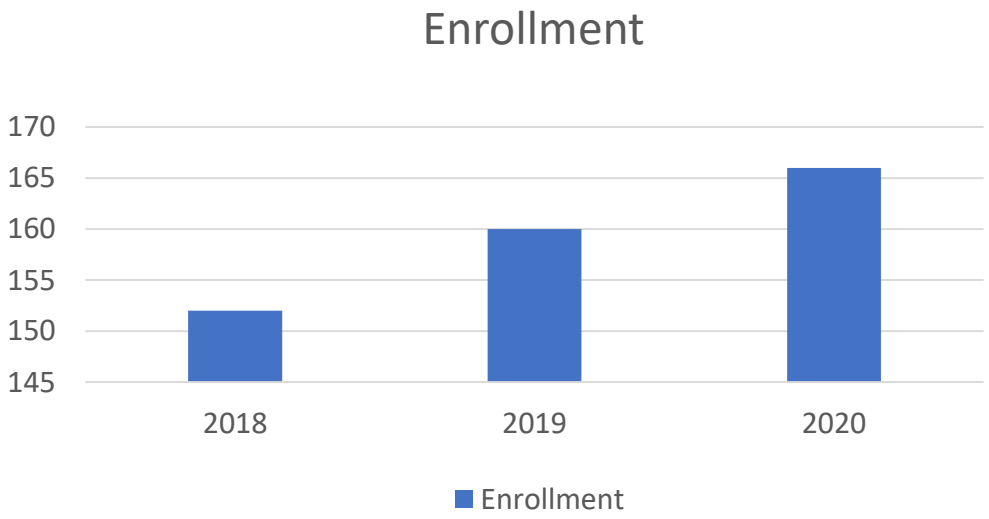
Contributed to TNTP - LMS platform and Kalvi TV.

Contributed to SCERT in E-Content Preparation, Book Level

You tube link into QR Code, Resource person for ICT Training.

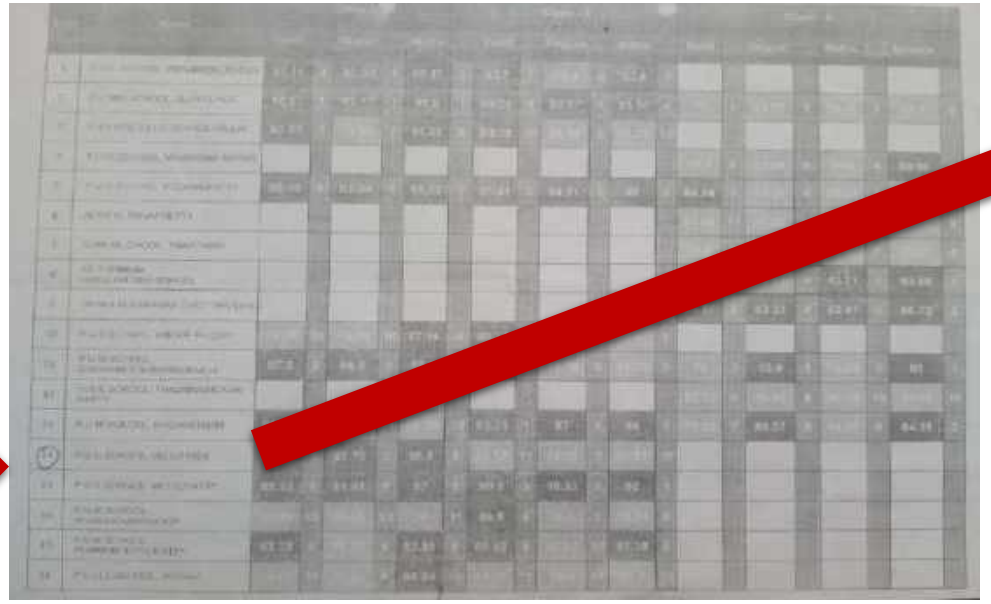
Over All Impact of ICT Usage – Hard work to smart work – save my time.





- Increased Students Enrollment to 166
- Increased Attendance Ratio from 75% to 98%
- 100% Pass Result in all Grades
- 100% Enrollment to High School, Many Students Completed at PG Level
- No Drop outs in Last 5 years
- 84 times Higher officials visited in last 5 years
- No Remarks from Higher official and gave more appreciation
- Fellow Teachers are involving in ICT initiatives after me

SLAS / NAS Report



S No	School Name	Class - 3			Class - 5			Class - 8				over all %	Rank
		Tamil	English	Maths	Tamil	English	Maths	Tamil	English	Maths	Science		
1	P.U.M.SCHOOL, KUNNAKAPALAYAM	91.5	93	94.67	84.5	90.29	93.33					91.32	3
2	P.U.E.SCHOOL, VELLIYANAI	91.11	83.05	97.22	80.43	87.06	88.57					89.21	5
3	P.U.E.SCHOOL, THANTHONIMALAI A	92.67	88.5	96	84		90					89.22	11
4	P.U.M.SCHOOL, KOVINDARAJPALAYAM	91.02	93.2	91.03	87.39	80.83	80.95					85.72	14
5	P.U.M.SCHOOL, MACHANNA NAGAR	87.5	81.5	92.33	83.17		82.29					80.83	21
6	P.U.M.I.D.SCHOOL, SUKKALUVUR	92.89	87.12	85.76	81.82	82.73	93.51	88.34				91.83	27
7	P.U.E.SCHOOL, T. KALIYAPPAKOUND	91.33	82.64	83.33								84.04	35
8	P.U.M.SCHOOL, JALLIPATTY	92.78		92.22	87.78		81.43					80.34	43
9	P.U.E.M.SCHOOL, POMMANDOTHUPATTY	93.46	80.6	92.86	86.4		82.61	80.83			80.21		54
10	ST.THERASA GIRLS H.S.SEC.SCHOOL								81.75		82.33		55
11	P.U.M.SCHOOL, KODANKIPATTY	84						85.54		86.25			61
12	P.U.M.SCHOOL, GANDHIGRAMAM									90.5			73
13	P.U.E.SCHOOL, S.VELLALAPATTY	84.33		90.86	80.78								84
14	P.U.E.SCHOOL, JEGATHAAM	88.48		93.81									96
15	P.U.M.SCHOOL, RETTIPALAYAM				80.87		89.71						126
16	P.U.M.I.D.SCHOOL, RAYANOOR	82.86		86			84						127
17	P.U.M.SCHOOL, IYYAM PALAYAM			90									138
18	RANIMEYAMMAI HR.SEC.SCHOOL												140
19	DR.M.A.M.M.MASAY CHETTIAR GHS												140
20	P.U.E.SCHOOL, SAMATHUVAPURAM												151
21	ST.MARY'S A.I.D.HIGH SCHOOL												170
22	P.U.E.SCHOOL, RAYUPURA												178

As per SLAS and NAS Report My Students Reading, Writing and Arithmetic skills improved – School Rank improved from 10th place 2nd place.

Students are winning at many competitions at District and State Level

Projects Winning at National Level

Silver Grade for VIPNET Science Club Activities

Best CCRT Club Award

Artificial Intelligence for all – Microsoft Edu Day

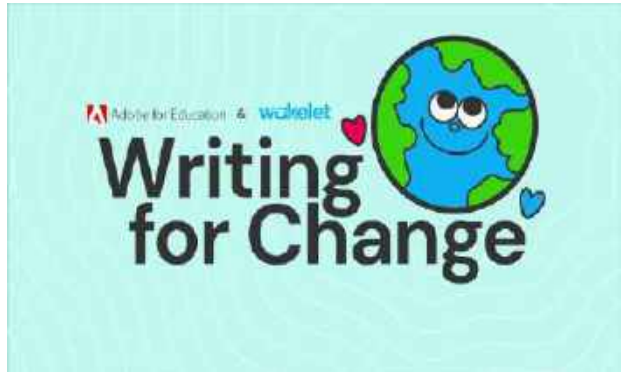
Cyber Safety and Security for Young Children – Adobe

Projects Winning at International Level

Social Emotional Learning – Kahoot Edu Summit

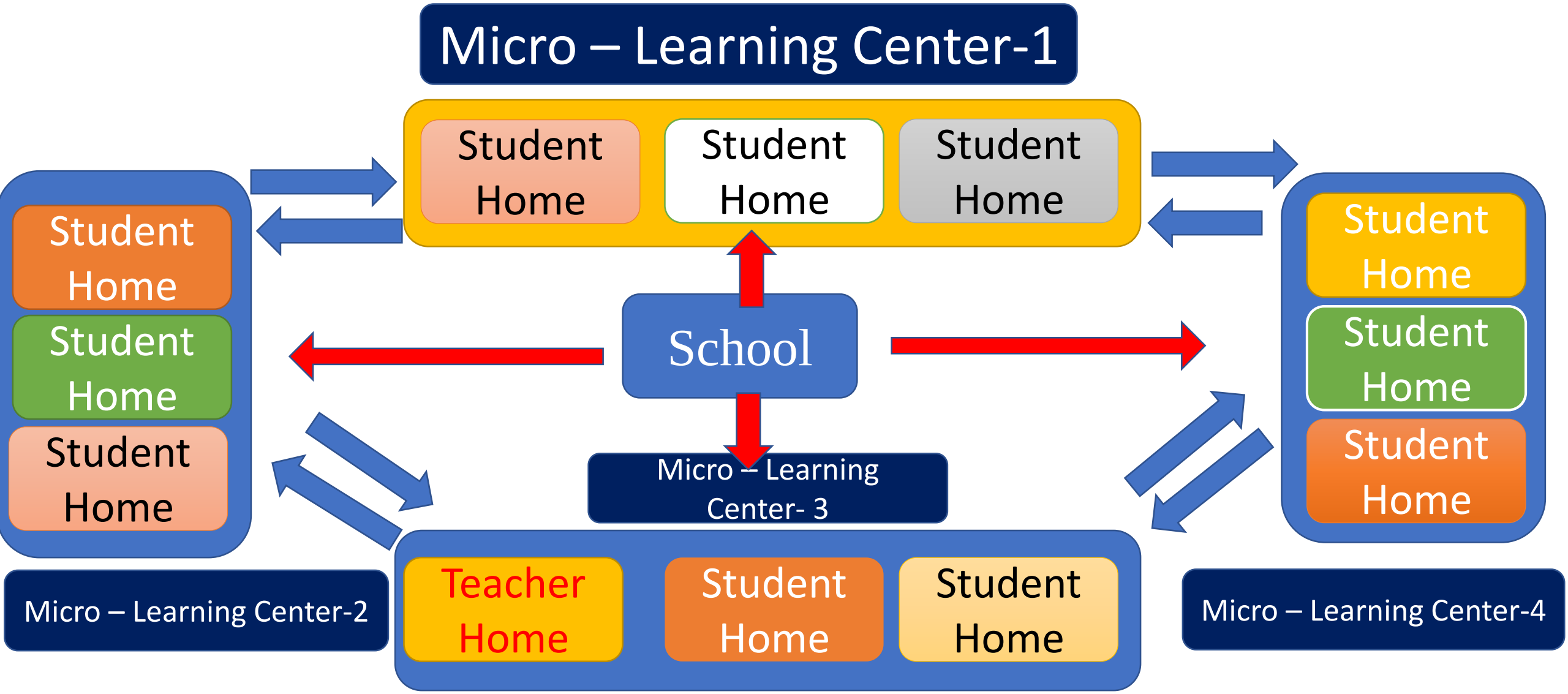
New Age Teaching Techniques on Primary School – Microsoft E2 Program at Sydney, Australia.

World Teachers Day contest – Wakelet.



Writing for Change

My Future Plans – Creating Micro Learning Centers



Micro – Learning Center

Micro Learning Center is the place of a group of students home where is located in the village.

Providing at least one device for each students to connect after schooling and holidays.

Students with their Peer group connected each other with their device and sharing information.

Make students when ever they want to connect they will meet at any time.

Sharing Lesson and co-curricular and extra curricular activities.

Engage the students in Teaching Learning process at any time

Why this is need?

Most of the parents both working and coming to home at 8PM.

Most of the Students are in No safety zone some times.

Students go to water bodies and they lose their life when they are in alone.

There is a huge problem for girl child – They affect in sexual harassment the persons who is near their home some times.

We have to protect their lives in School and Home also

I hope through this Micro Learning center to engage students in activities and protect them.

Some other Plans in the classroom

- Dividing students in small group for learning collaboratively
- Providing Tabs or Laptops to the students.
- Making students to use interactive tools in the class while teaching
- Improve their learning outcomes to attempt any exams
- Encourage students to learn self and help others to learn

Plans in School Level

- Making Effective ICT Environment in all Class
- Making AC Facility to Smart Class
- Setting up Digital Table in a Classroom.
- Continue with Toll free Number
- Moving to the Society to use Digital World

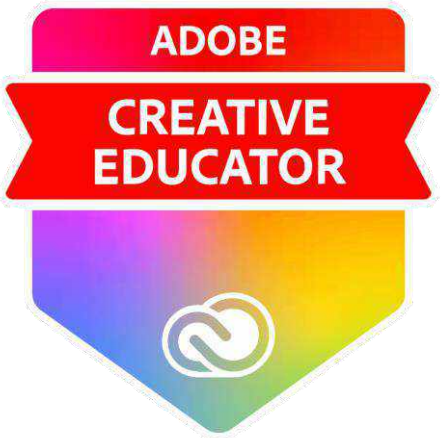
Recognition At International Level

Educator of Friendliest Focus on Self Esteem

Microsoft Innovative Educator Expert

Minecraft Mentor

Adobe Creative Educator



Channel Recognition for ICT Initiatives

News18

New Gen Media

Tamilan TV

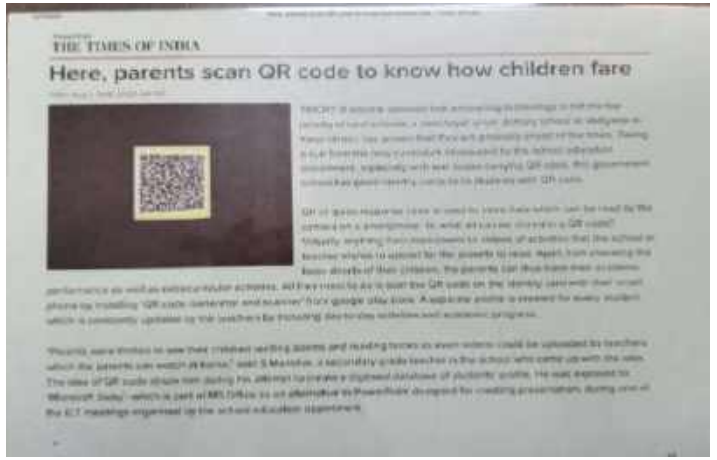
Thanthi TV

Daily Magazines Recognitions for ICT Initiatives

தமிழகம்

12

தொழில் நுட்பத்தில் அசத்தும் அரசு தொடக்கப்பள்ளி


THE TIMES OF INDIA

Here, parents scan QR code to know how children fare

இணையவழி கருத்துரையாடல்

அரசுப்பள்ளி ஆசிரியர் வெற்றி

கரூர் மாவட்டம் வெள்ளியணையில்

அரசுப் பள்ளி மாணவர்களுக்கு 'க்யூஆர்' குறியீடு அடையாள அட்டை

குழந்தைகளின் செயல்பாடுகளை பெற்றோர் எளிதில் அறியலாம்

ஆன்லைன் மூலம் மாணவர்களுக்கு பாடம்

வெள்ளியணை தொடக்க பள்ளி அசத்தல்

மைக்ரோசாப்ட் நிறுவனம் நடத்திய

தேசிய போட்டியில் வெள்ளியணை

ஆசிரியருக்கு விருது

Appreciation Certificate Received for Initiatives

Received an appreciation certificate for using ICT initiatives from our District Collector and DSE.

Certification for ICT Initiatives

By District Collector

By Department School Education

By Microsoft

By Adobe

Introducing Digital awareness to use Government of India Web platforms

Introduced about maan ki baat, BHIM app, MyGov app, Digital India portal, MyGov Quiz and PMKisan App to the Public.

Contribution to VVM Exam and Science Express

Coordinated VVM Exam and Science Express at District Level

Promoting QR Code Text Book for using DIKSHA App

Promoted DIKSHA QR Code to the community in a Govt. Exhibition on behalf of District Administration.

Promoting Awareness about ISRO

Helping Parents and Public to know about the importance of ISRO.

Following Students Enrollment Campaign, and Providing Clean water to Drink, Helping Girl child Development

செல்வ மகள் சேமிப்பு திட்டத்தில் சேர்ந்த மாணவிகள்

Issued Newsletter about my school initiatives to the public.

Providing Clean Water to Drink for our young children

Helped girl child to deposit at at the Post office in Selva samirithi saving scheme.

Following Co – Curricular And Extra curricular Activities

We are giving co-curricular and Extra curricular activities by following Zero hour speech, VIPNET Science Club, Bharat Scouts and Guides, National Green Corps and CCRT Cultural Club

Focusing on Self Learning

Helping students to use QR Code Identity card for self learning

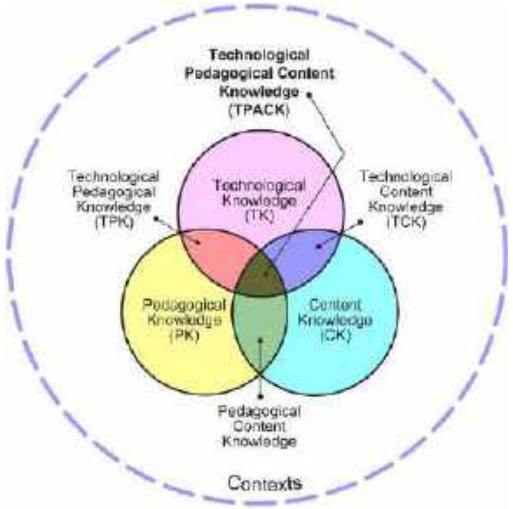
Focusing on Investigation and Experimentation – Students created Foldscope by using You tube

Helping students to use PhET Simulations for investigation and experimentation.

Focusing on Cooperation, Collaboration, Communication, Creativity

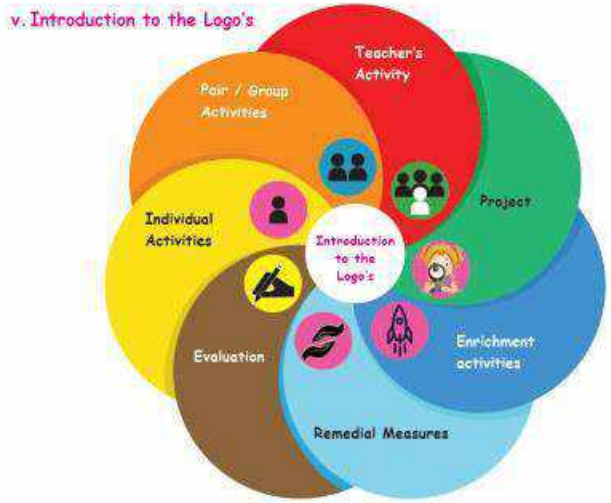
Making opportunities to do activities to Shift from rote learning to experience learning.

Enhancing Learning Outcomes with TPACK



Content

Technology



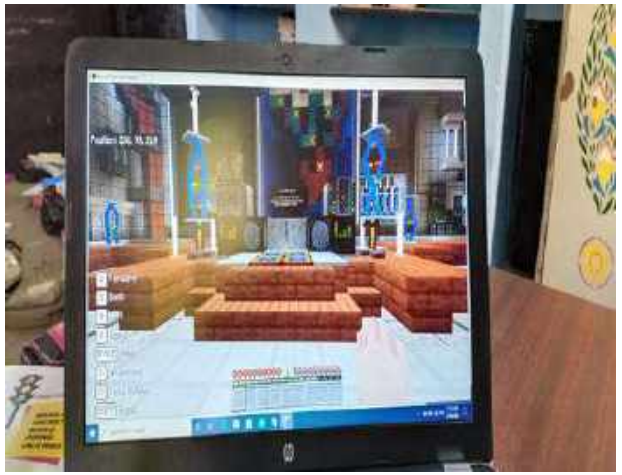
Pedagogy

I have integrated TPACK in the QR Code ID Card

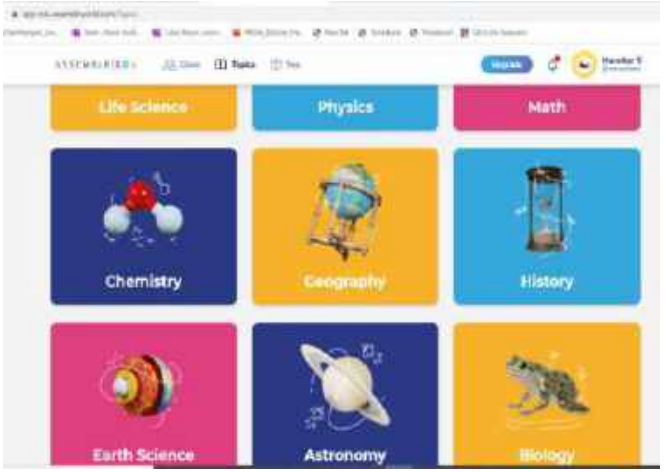
Focusing on Higher Order Thinking Skill

Creating

Evaluating



Analyzing



Helping to use Minecraft to develop creativity skill. Helping to use Assemblr Edu Tools to stimulate their higher order thinking skills.

Formed School Innovation Council

Ministry of Education
MoE's INNOVATION CELL (GOVERNMENT OF INDIA)
SCHOOL INNOVATION COUNCIL

CERTIFICATE OF ESTABLISHMENT

This is to certify that

PANCHAYAT UNION PRIMARY SCHOOL, VELLIYANAI, KARUR

has established School Innovation Council (SIC202226471) as per the guidelines of Innovation Cell, Ministry of Education, Govt. of India during the academic year 2022-23.

Dr. Abhay Jere
Chief Innovation Officer
Ministry of Education's Innovation Cell

Certificate ID: SIC202226471 Issue Date: 2nd Nov, 2022

Ministry of Education
Government of India
Ministry of Education's INNOVATION CELL
AICTE

School Innovation Ambassador Training Program

Innovation Ambassador Certificate

This is to certify that
MANOHAR SUBRAMANIAN
has completed the
School Innovation Ambassador Training Program
of 72 hours duration of Ministry of Education's Innovation Cell, AICTE and CBSE.

Prof. Anil Sahasrabudhe
Chairman
AICTE

Dr. Abhay Jere
Chief Innovation Officer
Ministry of Education's Innovation Cell

Dr. Biswajit Saha
Director (Training & Skill Education)
CBSE

Created 1330 QR Codes for the famous Tamil Literature Thirukkural as a E-Book.

விரைவுக் குறியீட்டுத் திருக்குறள்

1330 குறள்களும்

Thank You!