

## Voices from the Field

### क्लिक्स के द्वारा अंग्रेजी की शिक्षा

रोहिताश्व मीणा,  
राजकीय उच्च माध्यमिक विद्यालय, रुखाडा

नमस्कार, मैं रोहिताश्व मीणा, राजकीय उच्च माध्यमिक विद्यालय, रुखाडा में अंग्रेजी विषय का शिक्षक हूँ और विद्यालय में क्लिक्स कार्यक्रम में भागीदारी निभाने का प्रयास कर रहा हूँ। क्लिक्स कार्यक्रम में शिक्षक अपने विषय को पढ़ाने के लिए तकनीकी का उपयोग करते हैं जिसके अंतर्गत विद्यार्थियों को कंप्यूटर के माध्यम से पढ़ाया जाता है। पढ़ाने की इस विधा से पढ़ने में रुचि बढ़ती है तथा आपस में सहपाठी के साथ सहयोग की भावना का विकास होता है, निर्णय लेने की शक्ति बढ़ती है। बात मेरे विषय इंग्लिश की करें, यहाँ विद्यालय में गाँव से बच्चे पढ़ने आते हैं तो इनका इंग्लिश विषय कमजोर रहता है। बच्चों को इंग्लिश विषय सिखाने के लिए काफी प्रयास किये जाते हैं, जिससे उनमें इंग्लिश के प्रति समझ बढ़े। क्लिक्स कार्यक्रम बच्चों की इंग्लिश के प्रति समझ बनाने का प्रयास रहा है और बच्चों में क्लिक्स इंग्लिश मोड्यूल की विभिन्न गतिविधियों के माध्यम से समझ और रुचि भी बढ़ी है। इनमें मुख्य रूप से सही स्पेलिंग सेलेक्ट करना, स्टोरी सुनना, प्रश्नों के उत्तर देना, कलर की पहचान करना, पिक्चर देख कर उत्तर देना, वाक्य पढ़ना आदि गतिविधियाँ करायी गयीं। क्लिक्स कार्यक्रम विद्यालय में आने से पहले कंप्यूटर लैब का विद्यार्थियों के लिए कोई उपयोग नहीं हो पा रहा था, लेकिन क्लिक्स कार्यक्रम के साथ ही लैब कार्यशील रहती है।



#### Current Status of RAJASTHAN



Government of Rajasthan



SCHOOLS  
101



TEACHERS  
248



STUDENT  
13,277

### Teachers Professional Development (70 new schools)

F Lalruatfela, Project Coordinator,  
CLix Mizoram

Teachers Professional Development trainings were carried out in three Districts (Aizawl, Champhai & Lunglei) in the month of September in Mizoram starting from 11<sup>th</sup> Sept 2018 - 28<sup>th</sup> Sept 2018 in 70 new schools.

The trainings were facilitated mainly by the CLix Mizoram Team and few members from the TPD Team. From the comments and feedback of the training teachers, the trainings seem interesting and beneficial for them. The most common comments received were that this program will be very helpful for students in the rural area as it will help introduce the technological world to them and will help them in understanding the deeper meaning and concept of each subject which most student lack. So, a positive outcome is that strong implementation is expected from the Mizoram Team.



#### Current Status of MIZORAM



Government of Mizoram



SCHOOLS  
30



TEACHERS  
154

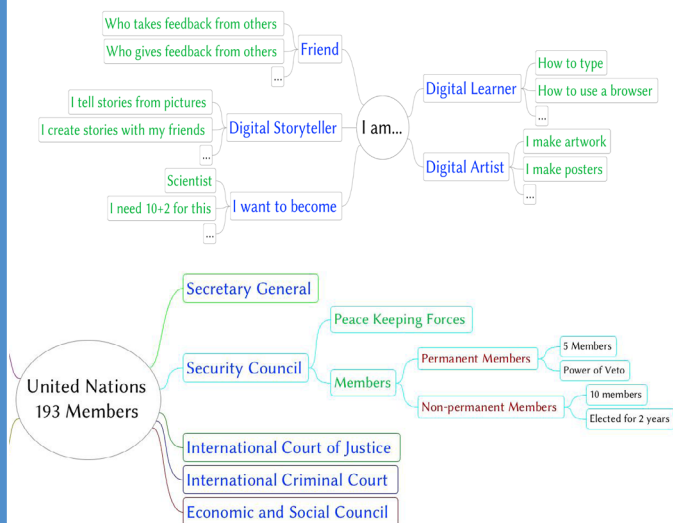


STUDENTS  
4400

## Thoughts on Mindmap

*Dilip Sahu, Teacher,  
Government Higher Secondary School, Joratarai*

Mind mapping is a revolutionary approach for teaching and learning. Use of mind mapping can help students visualize and externalize concepts and understand connection between ideas. It can be used in presentation, critical thinking, decision making and project management. It is an effective visual aid for student to learn different ideas together. Teacher can also assess student conceptual development and understanding. It improves results, and contribute positive learning. It improves imagination power, constructivism, communication and critical thinking.



## Thoughts on Mindmap

*Sunita Wadhvani, Teacher,  
Government Higher Secondary School, Sambalpur*

Mindmap is my most favorite tool and I often use it in teaching Learning process.

### Advantages:

- Mindmapping is a perfect collaborative tool for class discussion.
- It helps students brainstorm and explore any idea concept or problem.
- Facilitate better understanding of relationships and connections between ideas and concepts.
- Makes it easy to communicate new ideas and thought process.
- Allows students to easily recall information.
- Helps students take notes and plan tasks



Current Status of  
**CHHATTISGARH**



**SCHOOLS**  
47



**TEACHERS**  
139



**STUDENTS**  
4680

## School level orientation of Teachers

*Vishweshwar Rao,  
Physical Science Teacher,  
Zilla Parishad High School Kommala, Warangal*

I am Vishweshwar Rao, Physical Science teacher in Zilla Parishad High School Kommala, Warangal Rural. I want to share my experience of CLIX orientation. We had a CLIX modules orientation by Mr. Raju and Mr. Ramnagar from CLIX Telangana team. They oriented us on connectivity, navigation, exploration of platform and modules. They explained clearly how these digital modules can help us in our professional development and students in academic achievement. We tried exploring physical science modules after orientation. As topics from physical science subject are difficult to explain on the board, through CLIX modules its easily understandable to students.



As teachers we are academically equipped, but technical aspects like software and hardware are where we need more help. CLIX field team is helping us in this initial phase by also involving students in technical troubleshooting. Raju Sir has trained student leaders who will help us in technical aspects. We have been added to the Telegram groups to seek more help in the technical aspects. We are hoping to have more CLIX classes in our schools with our students.



Current Status of  
**TELANGANA**



**SCHOOLS**  
300



**TEACHERS**  
1,853



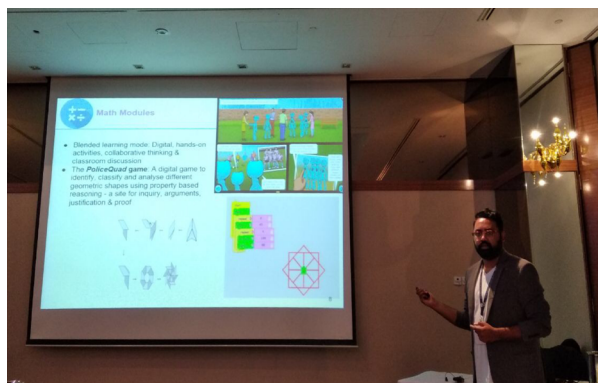
**STUDENTS**  
10,080

### CLIX at the Education and e-Learning (EeL 2018) Conference held at Singapore (24.09.2018-25.09.2018)

We reached Singapore on 23rd September to participate in an international conference. This was the 8th annual International Conference on Education and e-Learning (EeL 2018) - an international event for the presentation, interaction and dissemination of new advances relevant to education and e-Learning. The EeL 2018 continuously aims to foster the growth of research in education and its benefits for the community at large. The Conference was organised by Global Science and Technology Forum (GSTF) on 24th and 25th September at Hotel Fort Canning (Singapore). It was a good opportunity to share our work with the larger audience and learn about the latest developments in the field of e-Learning.



The Conference started on 24<sup>th</sup> September 2018 at 09:30 AM (SGT) with the following keynote address; **"Technology Enhanced Learning (TEL): Opportunities and Challenges"** by Prof. Venky Shankararaman (Professor of Information System (Education), Deputy Dean (Practice & Education) School of Information Systems, Singapore Management University).



[Read more](#)

### Ports:

It is the interface to communicate with the other devices. Example, connecting pendrive to USB port of computer to get/access the data from the pendrive.

Different types of Ports to connect to the computer:

#### 1. **USB Port**

To connect USB dongles, Pendrive, portable HDD, printers, Scanners, keyboard and mouse, etc.

#### 2. **VGA Port**

To connect Display source (Monitor)

#### 3. **PS/2**

To connect Keyboard

#### 4. **Din-5**

To connect Keyboard

#### 5. **HDMI**

To connect Display (Monitor) or TV

#### 6. **VDI**

To connect Display (Monitor) or TV

#### 7. **RJ45**

To connect network / internet

#### 8. **RJ11**

To connect telephone line (Old way of getting internet via modem)

## CLIX team—Research

### In-service Teacher Education and ICT Review of CLIX Baseline Data from Four States

*Meera Chandran and Arundhati Roy*

The potential of ICT use for the spread of quality in-service teacher education is being increasingly discussed in Indian policy and programme documents. The ministry of human resource development (MHRD) and the National Council for Teacher Education (NCTE) recently announced the development of a National Teachers Platform (NTP) to provide teachers with digital resources for their professional use. This working paper presents an overview of current access to ICT and ICT-related practices of secondary school teachers in four Indian states, drawing on data from the baseline study made by the Connected Learning Initiative (CLIX).

[Read full Paper](#)

This section features recent studies in the field of education published by our CLIX team who work in tandem with the Centre for Education, Innovation and Action Research (CEIAR).



**CLIX offerings:** <https://demo-clix.tiss.edu/>

**Post Graduate Certificate in Reflective Teaching with ICT:** <https://www.tissx.tiss.edu/>

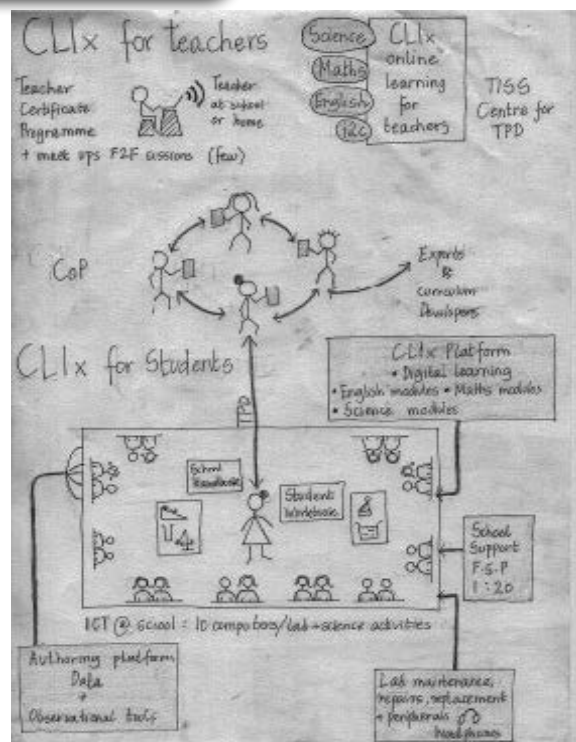
**Publications:** <https://clix.tiss.edu/research/publications/>

**Releases:** <https://clix.tiss.edu/research/releasesmodules/>

**Blogs:** <https://clix.tiss.edu/news/>

**CLIX in the Media:** <https://clix.tiss.edu/press-room/>

**Opportunities:** <https://clix.tiss.edu/opportunities/>



## Module: Atomic Structure



Atomic Structure is critical to the understanding of chemical representation, equations and reactions. The module includes digital activities to enable learners to grasp and contextualise modern chemistry in everyday life.

**Duration-** 2 weeks/8 periods

**Grade-** 8, 9

**Digital tools-** [Atom Factory](#) & [Molecule Factory](#)

**Developed by-** CLIX Science Team & Eklavya

Group→1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
↓Period																		
1	1 H																2 He	
2	3 Li	4 Be										5 B	6 C	7 N	8 O	9 F	10 Ne	
3	11 Na	12 Mg										13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe
6	55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	89 Ac	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og
				* 58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	
				* 90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	

The Connected Learning Initiative (CLIX) is a technology enabled initiative at scale for high school students. The initiative was seeded by Tata Trusts, Mumbai and is led by Tata Institute of Social Sciences, Mumbai and Massachusetts Institute of Technology, Cambridge, MA USA. CLIX offers a scalable and sustainable model of open education, to meet the educational needs of students and teachers. The initiative has won UNESCO's prestigious 2017 King Hamad Bin Isa Al-Khalifa Prize, for the Use of Information and Communication Technology (ICT) in the field of Education.

CLIX incorporates thoughtful pedagogical design and leverages contemporary technology and online capabilities. Resources for students are in the areas of Mathematics, Sciences, Communicative English and Digital Literacy, designed to be interactive, foster collaboration and integrate values and 21<sup>st</sup> century skills. These are being offered to students of government secondary schools in Chhattisgarh, Mizoram, Rajasthan and Telangana in their regional languages and also released as Open Educational Resources (OERs).

Teacher Professional Development is available through professional communities of practice and the blended Post Graduate Certificate in Reflective Teaching with ICT. Through research and collaborations, CLIX seeks to nurture a vibrant ecosystem of partnerships and innovation to improve schooling for underserved communities.

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