# CLIx Newsletter

Voices from the Field

Mitapally Chandramouli,
School Assistant,
Zilla Parishad High School,
Gorrekunta

I am a School Assistant (Bioscience), at Zilla Parishad High School Gorrekunta, Warangal district. I have been teaching this subject for 22 yrs but still, a new way of learning is always interesting to me.

I have conducted a CLIx session for our students today and it was a great learning for me along with my students. I have always used the normal/regular materials like textbooks and other materials. CLIx is my first attempt towards digital learning and it has been an experience of its kind. Previously, I did not have any knowledge of computers but after this session and trainings with CLIx I feel that I should have learnt computers earlier. This program is enhancing the ICT skills of the students in rural areas. Students are very excited to enter the ICT lab and it's equally exciting for teachers like me.

I have explored the ecosystem module and a lesson on marine ecosystem is given in an interesting way and am expecting more of bioscience modules in the future from the CLIx project.
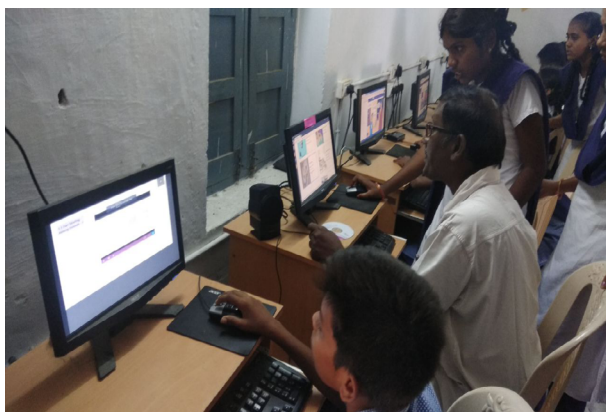
Current Status of
TELANGANA

SCHOOLS	TEACHERS	STUDENTS
300	1,853	10,080

Prabudha Kumar Sharma,
Principal,
Government Adarsh Senior Secondary School,
Kachroda

CLIx is running in this school for past 3 years. This program provides ICT enabled learning for core subjects like Maths, English and Science for class 8th and 9th students. Classroom teaching as well as exposure to these subjects is also given in our ICT laboratory with the help of videos, game simulation so that learning is made more effective, easy and interesting. Students learn in pairs so that they can practice and assist each other. We have arranged classroom teaching and ICT lab work in such a way that subject teachers are helping students in the ICT lab. Subject teachers use the lab and teach CLIx modules during their school time table of the particular subject. CLIx is a subject based program and can be an integral part of curriculum, which sets it apart from other ICT programs of the state.

सत्यमेव जयते
Government of Rajasthan

Current Status of
RAJASTHAN

SCHOOLS	TEACHERS	STUDENT
101	248	13,277

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Lalhriatpuia Hnamte,
Field Resource Coordinator,
Mizoram

Like in the previous years, the CLIx Team, Mizoram is putting maximum effort in all the activities required. In the month of September, Headmasters' Orientation and Teachers Professional Development (TPD) were carried out for the newly selected 70 Schools from Aizawl, Serchhip, Kolasib, Champhai and Lunglei Districts. Teachers who came for the TPD found it challenging and were very eager for the CLIx platform for their schools. They discussed how it could help their students so that they can learn their respective subjects as well as learn how to use computers at the same time. The teachers gave positive feedbacks about the CLIx platform. After the TPD was done, the teachers performed some activities which could be done without the use of computers with their students. They reported that the students enjoyed the sessions and that they were looking forward for the CLIx team to setup their schools with the CLIx platform. It was a great privilege for me to be able to help the teachers. After TPD was done, all the activities that were held during the TPD were reported. Then, in the month of October, the CLIx team Mizoram went on with the existing 30 schools in Aizawl, eagerly waiting for the CLIx platform to be installed in the newly selected 70 schools.

ओमिन कुर्रे,
विज्ञान शिक्षिका,
राजकीय उच्च माध्यमिक विद्यालय, थूहा,
धमतरी

इस सत्र में हमारे स्कूल में क्लिक्स की क्लास लगभग रोजाना होने लगी है जो कि पिछले साल से बहुत अच्छा है. इस बार तो हर विषय की क्लास हो रही है और बच्चे उसको बहुत उत्सह के साथ कर भी रहे है. मैं उन्हें वर्तमान में परमाणु संरचना सिखा रही हूं जो छात्र बहुत उत्सुक तरीके से सीख रहे हैं क्योंकि यह मॉड्यूल में प्रदान किए गए सिमुलेशन और उदाहरणों के माध्यम से अवधारणाओं को समझने के लिए बहुत अधिक अवसर प्रदान करता है। यहां तक कि मैं इसे उनके दैनिक जीवन गतिविधियों से जोड़ने की कोशिश कर रही हूं ताकि वे इसे बेहतर समझ सकें। प्रारंभ में, उनके लिए सिमुलेशन को समझना मुश्किल था क्योंकि वे पहली बार ऐसा कर रहे थे लेकिन अब वे इसका आनंद लेते हैं। सबसे महत्वपूर्ण बात यह है कि छात्र ऐसी चीजों से आसानी से सीख रहे हैं और समझ सकते हैं जो मुख्य उद्देश्य है। मैंने उनके साथ इकोसिस्टम मॉड्यूल भी किया है। साथ ही, क्लिक्स फील्ड टीम पर निर्भरता भी हर दिन कम हो रही है क्योंकि पुराने छात्र अब कंप्यूटर प्रयोगशाला में होने वाले मुद्दों को हल करने में सक्षम होने लगे हैं लेकिन इसमें अभी थोडा समय और लगेगा।

Current Status of
MIZORAM

Government of Mizoram

SCHOOLS	TEACHERS	STUDENTS
30	154	4400

Current Status of
CHHATTISGARH

SCHOOLS	TEACHERS	STUDENTS
47	139	4680

When each one, taught one !

Through CLIx, we train teachers in methods to maintain computer labs. During this work, I wondered why we train only teachers when we can train the students too.

We selected four active students from each class. We expected that these four students would train other students later. I helped the selected students learn the following:

- Maintaining the computer lab and tackle the non-technical as well as the technical problems
- Helping classmates and teachers
- The processes of the server, the system and the lab in detail
- Connecting external devices, LAN cable, monitor
- Checking the functioning of the devices
- Identifying the network model in the school and how connectivity is implemented
- Logging into the platform, navigating the different modules

I planned the training in such a way that the selected students would be able to perform these activities and help other students learn in an appropriate manner. This experience would be unforgettable for students as well as for us.

Students patiently learning the technical aspects of lab maintenance

We observed that this approach to maintaining computer labs in schools would be a great success if teachers in other school adopted this initiative. It empowers students and prepares them for their future by imparting leadership as well as technical skills.

Here are a few student responses to the lab maintenance training.

Student A: Srilatha
I am so excited to learn tasks like CLIx time and word play. Creating images by drag and drop is

Read more

Troubleshooting- 1

Client-Server Machine Connectivity Issue

In the previous tech sections, we got introduced to tech terms in the context of the school computer lab and the technical words in those references. We will now understand the troubleshooting aspects in a series of articles. What if in the Local Area Network (LAN), the client machine is not able to connect to the server machine, despite both being ON and running. In the wired LAN setup to connect machines to each other the following components are important:

Network Switch

1. *Switch*
2. *LAN ports on both machine and switch* **3.** *LAN Cables (in wireless LAN setup cables are not required, WiFi routers get used instead)* To troubleshoot, the following points can be explored. **1.** *Check if Switch is ON or not* **2.** *Check if the LAN wire head is properly inserted in both ports on both ends, i.e. on the switch side and on the machine side* **3.** *Check if the LAN cable is working, by replacing it with another LAN cable* **4.** *In the LAN setup, all the machines connected must be in the same IP range for a given set of IPs in that LAN. The IP is the unique identity using which machines talk to each other. So check if the IP assigned to both the machines are in the same range, for example, If the LAN IP range is 10.10.10.*, then both machines should have the IP in that range. So cross check the IP's of the machines.* If the basic components are creating the non-connectivity issue, then these above steps should solve the issue.

Task Complexity, Peer Interaction and Learner Autonomy: A Case Study

Nishevita Jayendran, Lavanya Murali, Anusha Ramanathan, Jennifer Thomas, Sujata Bhonsale, Surbhi Nagpal, Mayuri Kulkarni

This paper investigates practices that support student autonomy in an ESL lab. Adopting a mixed methods, case study approach and drawing on observations, surveys and interviews with 46 ninth grade students and teachers in an interventionist language learning program in a semi-urban, government high school in Mizoram, India, we argue that language learning spaces that support peer collaboration to accomplish production tasks of increasing complexity lead ESL learners towards autonomy.

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: Basic Astronomy

Basic Astronomy involves constructing a three dimensional dynamic mental model of the solar system and explaining and predicting common place astronomical phenomena such as apparent motion of the sun and the stars, seasons, phases of moon and so on through a digital game 'AstRoamer'.
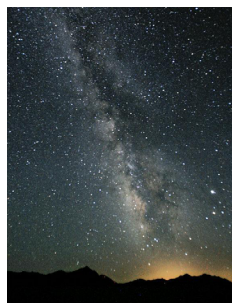
Duration- 3 weeks/12 periods
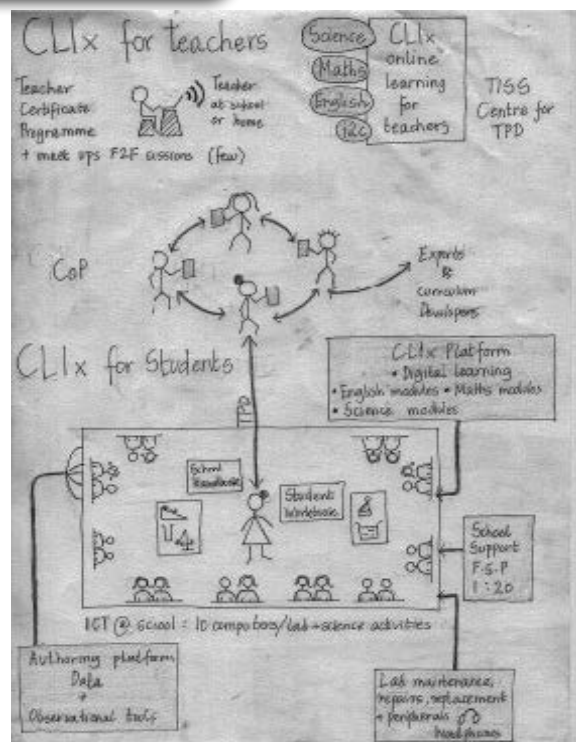**Grade-** 9
Digital tools- AstRoamer
Developed by- CLIx Science Team

An astronaut (Buzz Aldrin) on the Moon during Apollo 11 mission (Credit: NASA image gallery)

Milky way as seen from the Earth Credit: Steve Jurvetson

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 con-temporary 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 21st 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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