CLIx Newsletter | August 2017

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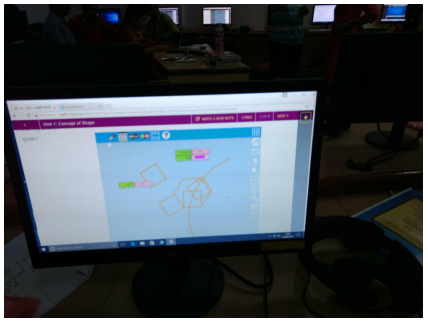
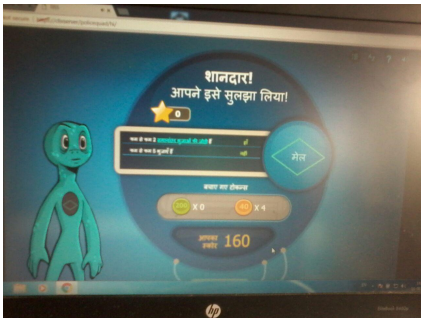
The Connected Learning Initiative (CLIx) is a collaborative initiative of the **TATA INSTITUTE OF SOCIAL SCIENCES, TATA TRUSTS and MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT).** It is a bold and innovative effort that aims to improve the quality of education accessed by secondary school students and teacher professional development.

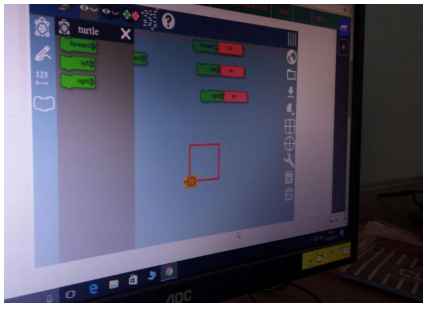
**(clix.tiss.edu)**

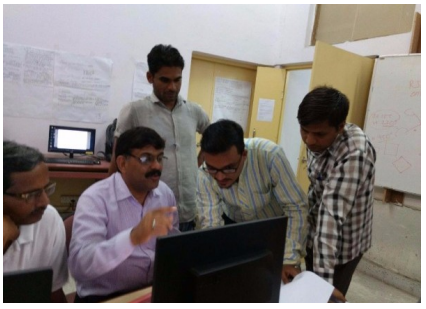
## Voices from the Field

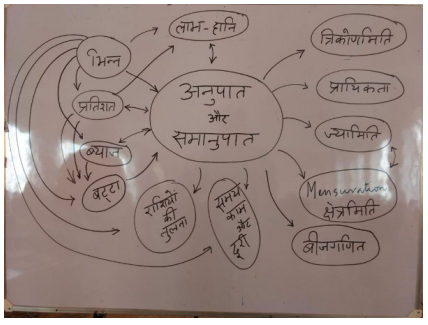
The Face-2-Face Training of Teachers in Mathematics is currently taking place in Sirohi from 9th-11th August, 2017 and Jaipur from 2nd to 4th August, 2017**.** Here's what they are saying about it...

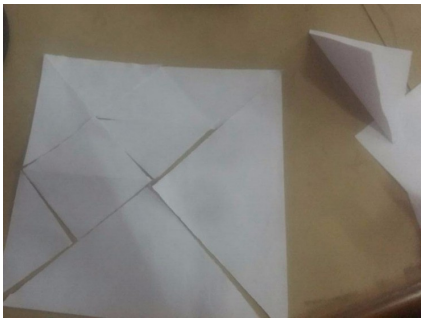






The training was very informative. Geogebra will be helpful in exploring midpoints and properties of parallel lines while turtle logo will help students to know the angles they need to draw diagrams. It was an interesting method to learn. I found police quad game very interesting and useful in developing the understanding among the students.

*Kalu Ram Sharma, Govt. Senior Secondary School, Nevar, Jaipur*

Tengram puzzle activity will be helpful in developing thinking and understanding among students.Although we need computer or smart phone for Turtle logo, it is a very helpful tool.

*Indermal Khandelwal, Govt. Senior Secondary School, Pamera, Sirohi*

## State updates for this month

**Chhattisgarh**

1. CLIx server installation ongoing (10 schools)
2. Tata Trust's Monitoring team (Mr. Anand and Ms. Deepa) visited schools in Dhamtari to observer CLIx implementation (23.08.17 - 24.08.17)

**Rajasthan**

1. Math Face to face training-
 - Jaipur (01.08.17- 04.08.17)
 - Sirohi (09.08.17- 13.08.17)
2. English Face to face training-
 - Sirohi (21.08.17 - 25.08.17)
3. Research workshop with field support persons (05.08.17)
4. Principal's orientation at Jaipur (19.08.17)
5. Principal's orientation at Sirohi (26.08.17)

**Mizoram**

1. TPD Face-to- Face Workshops in the following domains:
-English training (09.08.17 -11.08.17)
-Science training (09.08.17 -11.08.17)
-Maths training (16.08.17 -18.08.17)
2. Student Module roll out has begun for English (5 schools), Sicence (1 school) and Maths (1 school)

**Telangana**

1. TISS technology team trained MIS coordinators and Field Engineers on lab readiness and server installation.
2. Field Engineers appointed by TISS are making the school computer labs ready in 300 schools across 13 districts

## Blog of the month: Digital Literacy: Connecting Schools to Schools

In the midst of the summer break, our army of implementation, technical and hardware representatives inaugurated the 'most prestigious' school computer labs of Telangana.

Enthusiastic about setting up the labs with CLIx courses, we started dusting the machines and organizing them. A few curious boys and girls volunteered to help us, amused to be witnessing computers being engineered. Out of the 24 schools in 3 districts that we visited, we successfully set up the labs and platform installations in 21 schools.Read more

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## Connecting Technology

This section features the digital tools that have been created and are being used by the CLIx team to reinvent pedagogy for students and teachers. This month we feature the Pattern Ratio Tool designed for understanding the concept of proportional reasoning through solving puzzle.

Patterns Ratio Tool - This tool helps students understand the concept of proportional reasoning related to scaling through solving puzzles. This is a highly interactive tool with music used as feedback to engage the children in the game. A pattern is scaled up or down by a factor of x according to the questions.

## Connecting Research

This section features recent studies in the field of education published by our CLIx faculty who work in tandem with the Centre for Education, Innovation & Action Research (CEI&AR). This month we read Srikhant Kalokhe's Socio-Linguistic Analysis of Science Textbook in Maharashtra

This paper is focusing on the issue of cultural and linguistic dimensions of science text book. How science education has to introduce at the very first primary stage has been discussed. This paper aims to analyse the ways in which the culture and language of child education can be employed in text book. How analysis can be made using the content and social-pedagogic relationships promoted by the language of the text book.

## Connecting Innovation

This section is for teachers, parents, mentors, and anybody who is looking for innovative ways of or content for learning and teaching. This month we feature Edwin Hubble, who played a crucial role in establishing the fields of extragalactic astronomy and observational cosmology and is regarded as one of the most important astronomers of all time

**Edwin Hubble:** Edwin Hubble was an American astronomer (born: 1889, died: 1953). Earlier it was believed that the universe consisted entirely of the Milky Way Galaxy. Hubble was the first to observe and identify galaxies outside our Milky Way Galaxy from a telescope on Mount Wilson in California in the early 1920s. He observed many galaxies and prepared a classification scheme for galaxies. He found that all the galaxies appear to be moving away from each other. Farther the galaxy, the faster it moves. This means that the universe is

expanding. This is known as Hubble's Law. Hubble's law is arguably the most important pillar of cosmology. Recently, it was found that the universe is not only expanding, but it is accelerating (the rate of expansion is increasing), a discovery which received the Nobel Prize in Physics in 2011.

Since 1999, the leading Hubble outreach group in Europe has been the Hubble European Space Agency Information Centre (HEIC). It is one of the outreach programs of the European Space Agency (ESA).

To read on: https://www.spacetelescope.org

## Our recent posts

- **SCERT, Chattisgarh: OER Workshop for 250 High Schools**

SCERT conducted a four-day in-house workshop on Curriculum Mapping and open educational resources (OER) from 27 June to 30 June 2017 in collaboration with the Tata Institute of Social Sciences, Mumbai. Prof. G. Nagarjuna of HBCSE-TIFR, Mumbai, and Gurumurthy K. and Ranjani of IT for Change, Bangalore, shared their vast experience with teachers working on open software.Read on

- **Science Face-2-Face Training at Chhattisgarh**

A three-day workshop for science teachers in SCERT, Raipur, was conducted from 14 to 16 July 2017. The objective of the workshop was to introduce the science modules Motion and Ecosystem to the teachers. The forum was also used to introduce the Science TPD course to the teachers. The workshop was attended by 20–23 teachers on all three days.Read on

- **Leveraging Our Key Resource for Research**

Connected Learning Initiative (CLIx) is an action research project. In action research, data and research inform practice in the field, and practice carried out with a systematic research orientation contributes to knowledge building. Data Analysis Workshop, which is a course on understanding of data and its analysis, was planned for the field implementation team. The rationale of this course was to orient the field implementation team to data and its handling and use.The focus was on building skills to decide what data is important for what purposes, the various sources of data within CLIx and how data can be analysed for the action research process. Read on

## Opportunities

- Applications to Non-faculty positions are invited for the Connected Learning Initiative (CLIx) project of CEI&AR.
- The Teacher Pages Innovator Fellowship 2017-2018
- CLIx internships
- CLIx Faculty Fellowships 2016-2017

**The Connected Learning Initiative (CLIx) is a partnership between the Tata Institute of Social Sciences (TISS), Massachusetts Institute of Technology (MIT) and Tata Trusts. It is a bold and innovative effort to improve the professional and academic prospects of high school students from underserved communities in India. CLIx incorporates thoughtful pedagogical design and leverages contemporary technology, including online capabilities, to provide quality educational content and experiences at scale in the areas of English, Science, Mathematics and Values. As a platform for innovation in education, CLIx also supports the professional development of in-service teachers, making substantial contributions to teacher education in Indian languages. The initiative aims to reach approximately 1,100 schools and 147,000 students in Chhattisgarh, Mizoram, Rajasthan and Telangana during 2015-18, and also conduct professional development for approximately 5,090 teachers.**

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CLI CONNECTED LEARNING INITIATIVE

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