

Case Study: Changes in Teaching and Learning Process

Preface:

Nowadays, the education system is changing rapidly, hence it is very important to make innovations, so that students can get positive results in the learning process. In this case study, we will look at a school where the teaching and learning process has been improved.

Creation of conducive learning environment in schools:

The school has taken several steps to “transform the teaching and learning process”. In this, students are encouraged to take interest in various fields so that they can develop their interests and talents in the right direction.

Advising students during the learning process:

The school has trained teachers to monitor students' progress. Efforts are made to have personal discussions with all students to allow and assist them in their self-assessment.

Use of active and updated education method:

The school has updated innovative teaching methods that motivate students to actively participate. This includes the use of new technologies, practice of dynamic learning technology tools and proper use of online resources.

Achievement of progress through self-assessment and review:

Students get opportunities to self-evaluate their progress based on a variety of parameters. Also, through constant review they get the opportunity to directly confront their mistakes and improve.

Outcome:

The school has made several improvements in the process, which are yielding positive results in the learning process of the students. Positive change in learning not only increases students' interest in studies but also helps them in developing self-reliance and new thinking ability.

1. Full address of the school including name, location, phone number, e-mail address:

Hindustan Mitra Mandal Middle School

Location: Jamshedpur, Jharkhand

Phone number- 9031927748

E-mail: guni.singh64@gmail.com

2. Brief Resume of the School:

- Total student enrollment: 500
- Sanctioned and working post of teacher: Head teacher, 11 teachers
- School building: 10 classrooms, laboratories, art room, smart class, wifi, boundary walls, drinking water, toilets, equipment etc.

3. Present conditions in the school:

- Key Strengths: Facilitates active learning for students by following toy-based pedagogy and art-integrated learning
- Shortcomings: Lack of instructional material in classroom perspective.
- Good work opportunities: A new way to explain science and mathematics concepts in a natural learning environment outside the school room.

4. Social Profile of the School:

- Cultural pressure: supporting cultural diversity.
- Values: Peace, Cooperation, Dedication
- Perspective: Increasing positive morale of students.
- Aspiration: To make all students dedicated and capable citizens
- Skills and main occupation of school sector: Creative education

5. Difficulties in School:

- What: Difficulty with science and math concepts
- Why: Lack of digital content
- Challenges and issues: Providing children with the right support for mathematics and science

6. Change Initiative, Action Plan, Strategies and Results:

- Promotion of toy-based pedagogy and art-integrated learning
- Making educational material from toys and junk, use of ICT.

- **work plan:**

- Support in explaining complex science and mathematics concepts in natural learning.
- Following different styles to actively involve students in learning.
- **Strategies:** Collaboration to create different types of education materials, emphasis on ICT.
- **Falafel:** Success in increasing the understanding of students, increasing their creativity.

7. Work done by the school:

Action:

- Use of toy-based pedagogy and art-integrated learning.
- Formation of a team to create educational material.
- Efforts are being made to make digital material available in schools with the help of CSR.
- **Process:** Attempt to make educational materials from toys and junk. (no cost-low cost)
- **Success:** increased student understanding, positive feedback

8. Responsibility of school leadership:

- **Leadership:** Leading students' supportive literacy programs by the lead teacher.
- **Presentation:** Presentation of collaborative projects for good education.

9. Principle of Change:

- **Principle:** "Education is the right of every child"
- **Strategy:** Making educational materials from toys and scrap for supporting education, directly implementing toy-based pedagogy and art-integrated learning

Through this process, **Hindustan Mitra Mandal Middle School** has introduced new education technologies to its students and taught them a new way to explain difficult concepts of mathematics and science. The school has made several improvements in the process, which are yielding positive results in the learning process of the students.

Positive change in learning not only increases students' interest in studies but also helps them in developing self-reliance and new thinking ability.

Innovations being made by school teachers:-

विद्यालय के शिक्षक द्वारा किये जा रहे नवाचार :-

गणित- शिक्षण में किये गए अभिनव प्रयोग

रस्सी की मदद से त्रिभुज और चतुर्भुज के गुण एवं प्रकार को समझाना तथा वर्ग एवं आयत से परिचित होना



संख्या रेखा पर जोड़ घटाव



प्रकृति के प्रयोगशाला में गणित-शिक्षण

लम्बाई मापन की मानक इकाई की समझ



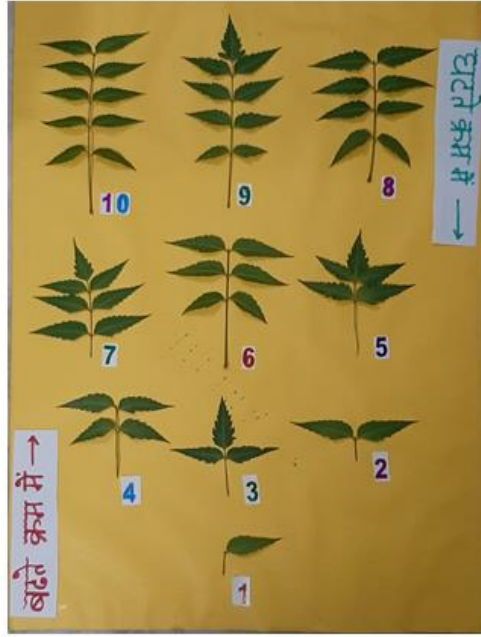
वृत्त का परिचय

खेत की लम्बाई एवं चौड़ाई की माप



खेत का क्षेत्रफल एवं परिमाण

Art integrated learning



संख्यांक में पैटर्न की समझ

आकृतियों में पैटर्न की समझ

गणित-शिक्षण में किये गए अभिनव प्रयोग



गुणज एवं गुणनखंड की गतिविधि



झाड़ू के सीक के उपयोग से गुणन



संग्रह में भिन्न



$1/2, 1/4$ एवं $3/4$ भिन्न की समझ

With Toy Based Pedagogy.



कहानी के माध्यम से गणित-शिक्षण



कविता के माध्यम से गणित-शिक्षण



Learn With Fun



सही टुकड़े जोड़ें



संख्याओं से खेलें



माचिस कि डिबिया, कभी आइसक्रीम, कभी डमरू और खोलने पर जादू



रसोई में गणित



सब्जियों के द्वारा 2D एवं 3D आकृतियां

रोटी की मदद से भिन्न

Learn With Fun



छायांकित भाग का भिन्न बताने वाला खेलौना



कप को घुमाओ, अलग-अलग verb पाओ



खिलौनों से सीखें

Cube puzzle



Learn With Fun



सुनो मेरी कहानी



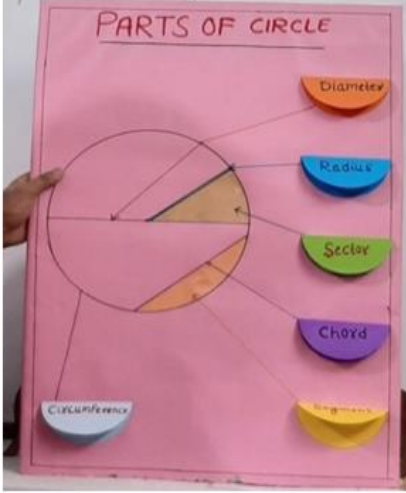
समतुल्य भिन्न



कोण के प्रकार



Types of colour



संख्याओं का खेल

पित्रात्मक रूप	भिन्न	प्रतिशत	दशमलव
	$\frac{1}{1}$	100%	1.0
	$\frac{1}{2}$	50%	0.5
	$\frac{1}{3}$	33.3%	0.33
	$\frac{1}{4}$	25%	0.25
	$\frac{1}{5}$	20%	0.2
	$\frac{1}{10}$	10%	0.1
	$\frac{2}{3}$	66.6%	0.66
	$\frac{3}{4}$	75%	0.75

भिन्न को प्रतिशत और दशमलव में बदलें



प्रश्न को हल करें, और सही कप में रखें



हासिल का जोड़ आसानी

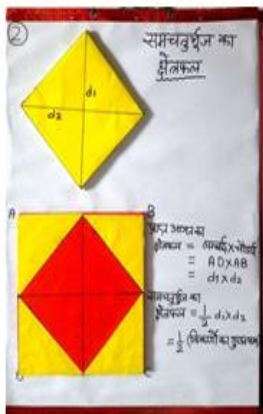
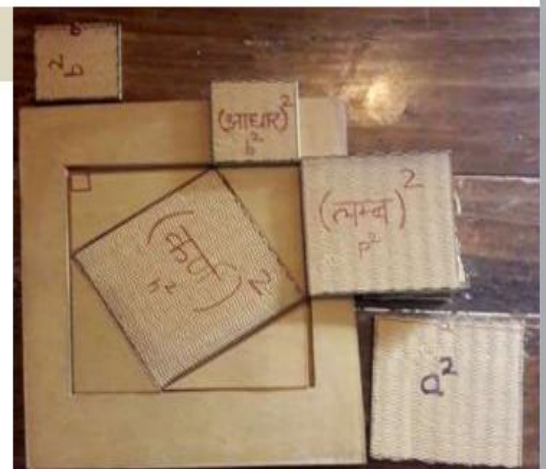
परियोजना कार्य के माध्यम से विज्ञान शिक्षण



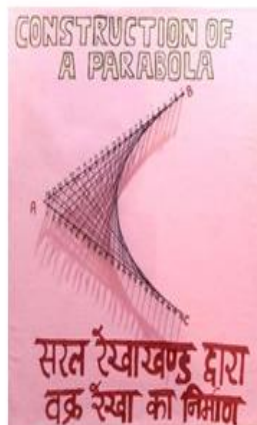
TLM की सहायता से सूत्र का सत्यापन



पाईथागोरस प्रमेय का सत्यापन

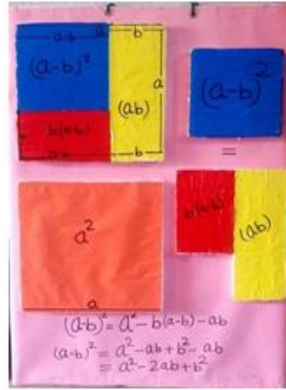
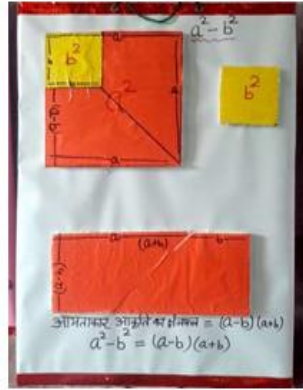
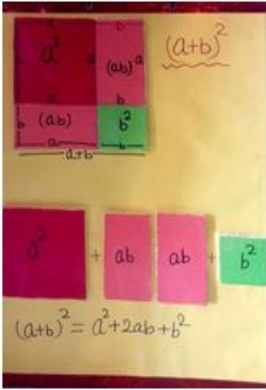


समचतुर्भुज के क्षेत्रफल का सूत्र

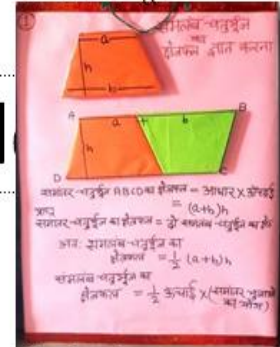


त्रिभुज के तीनों कोणों का मान 180 डिग्री होता है

TLM की मदद से बीजगणित के सूत्र का सत्यापन



प्रथम n प्राकृतिक संख्याओं का योग का सूत्र



TLM की मदद से वृत्त के सभी प्रमेय का सत्यापन

समलम्ब चतुर्भुज के क्षेत्रफल का सूत्र

Youtube channel

120+ Videos uploaded

Stats

Joined Oct 24, 2014

103,759 views

• Youtube Link

<https://www.youtube.com/channel/UCnNTzTpakie6eq7YohOqYsg>

Creative learning with Manoj/Guni
1.78K subscribers

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Video Title	Views	Age
Simple Interest, Part-2	33 views	1 day ago
साधारण ब्याज, Simple Interest, part-1, Digi...	33 views	1 day ago
Learn with fun, 3, Arrange the cubes	63 views	1 week ago
Learn with fun, 2, fraction with tea cup	53 views	1 week ago
profit and loss	2,74 views	1 week ago
Learn with fun, 1	118 views	1 week ago
class-7, percentage Part-2	4.5K views	1 week ago
Arrange the cutouts of shapes	79 views	2 weeks ago
Toys making art and craft making through online...	50 views	2 weeks ago
Equivalent fraction, joyful learning with Toy best...	42 views	2 weeks ago
concept of circle Toy based pedagogy Art integrated...	62 views	2 weeks ago
विद्युत् चालक पदार्थों के गुणों का अध्ययन	411 views	2 weeks ago
रसोई में लौह, लोहे के बड़े पीपे की उपयोगिता। 1/2, 1/3, 3/4...	68 views	2 weeks ago
एक चतुर्भुज की विशेषताएँ	69 views	2 weeks ago
comment for Digi school, JCERT Di sha portal	22 views	2 weeks ago
participation in training and workshop	27 views	2 weeks ago
class 7, Percentages, part-1	4.5K views	2 weeks ago
types of colloid Art (Integrating) to activate Wind...	118 views	2 weeks ago

Channel analytics
Overview Reach Engagement Audience

Advanced Mode: Oct 24, 2014 - Aug 4, 2021 Lifetime

Your channel has gotten 103,995 views so far

Metric	Value
Views	104.0K
Watch time (hours)	4.1K
Subscribers	+1.2K

Realtime
Updating live

1,165 Subscribers
SEE LIVE COUNT

468 Views - Last 48 hours

सह पाठ्यक्रम गतिविधियाँ



चित्रांकन प्रतियोगिता



रंगोली प्रतियोगिता

निबंध प्रतियोगिता



TLM प्रदर्शनी

विज्ञान प्रदर्शनी

प्रस्तुतकर्ता :- मनोज कुमार सिंह

राष्ट्रीय शिक्षक पुरस्कार-2021,

हिंदुस्तान मित्र मंडल मध्य विद्यालय, जमशेदपुर, झारखण्ड