



St. Ursula Girls' High School & Jr. College, Nagpur

E-Calendar

Session 2020-2021

**"Cast all your anxiety on him because he cares for you."
1 Peter 5:7**



THE URSULA SPECTRUM

ARISE SHINE

Foreword by the HOD

Incredible Tips to Develop Scientific Temper In Children

"The scientific temper points out the way along which man should travel. It is the temper of a free man." – Jawaharlal Nehru

The idea of a fast developing country can be realized only when the younger generation has a scientific temper and a rational approach towards making life choices. Children have an innate curiosity to explore, investigate, ask questions and seek answers.

Your child's scientific temperament is influenced by the environment and the people he or she is with. Therefore your parenting style plays a major part in forming a scientific rationale. Here are some ways in which you can nurture a love for science in your child –

1. Create a pro-science home

Encourage your child to ask questions about almost everything. Instead of providing readymade answers or giving your opinions, allow them to seek out answers on their own. Guide and direct them to reliable sources of information. Let their TV time include more scientific programs than entertainment and give them to the company while watching.

2. Develop critical thinking skills

Give your child the liberty to doubt the well-established ideas. Let her use her reasoning and ask herself questions like, "Is there a way to prove this?". Teach her inductive reasoning which means that specific instances can be derived from general principles. Provide her with the knowledge but allow her to marvel at mysteries that are yet to be solved.

3. Support their experiments

Steer your child away from finding answers on the internet and encourage them to use their reasoning. Cheer them on when they create models or diagrams to explain their understanding. Motivate her to debate on the traditional and unfounded biases and arrive at her own conclusions.

4. Opportunities to apply what they learn

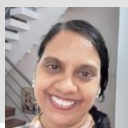
Show your child the rising of the yeast, the metamorphosis of a caterpillar into a butterfly or the sprouting of the seedlings. Take knowledge out of their textbooks into the world around them. When it comes to academics, ask them questions that cannot be obtained directly from the textbooks. Encourage her to give examples of real-life applications while explaining the concepts.

5. Employ games and electronic devices

You can add the fun element to your child's scientific thinking by playing games like chess that help in developing his logical sequencing and strategic skills. Reading comprehension passages not only improve their knowledge but also nurture their scientific temper. Make use of the riddles and brain teasers that are available on your smartphone to encourage their scientific exploration.

Stay focused and on track!

Today's world is replete with misinformation, uncertainty, so creating scientific temperament cannot be done instantly. At St. URSULA GIRLS H.S. AND JR.. COLLEGE, one of the top STATE BOARD schools in NAGPUR, we have avant-garde science laboratories equipped with the relevant and essential tools for experimentation. UNDER the able guidance and vast experience of our vibrant Principal, Mrs. Rachana Singh, we teachers ensure that our students gain first-hand learning experience by watching and involving in the lab activities. Through consistent effort and support, our children will be the innovative doctors, engineers, and scientists of the next generation.



Ms. Monica Patle
HOD, Science -1 Dept.

Foreword by the HOD
The Role of Science in Life

Bringing a rather outdated term 'scientific temper' back into circulation might raise some hackles, however. How can modern science be valourised after an awareness of the devastation it has caused? Nuclear destruction, industrial pollution, climate change and a technologically induced sedentary lifestyle are all undeniable facts. But science continues to play a limited but critical role in human life. In one sense, it always has. This is to do with our inescapable interaction with the natural world and our need to harness its powers. Pre-language science in which knowledge embodied in skills, neither consciously nor symbolically available but generated in practical interaction with the world, has been around for two million years. And scientifically oriented stories, with an explicit, language-dependent understanding of nature, developed some 40,000-50,000 years ago when, to explain, predict and control nature, we began telling each other how and why things happen. An idea then took hold that performing a particular ritual to appease spirits delivers us from disease and death and could provide all the goods we need (magic, astrology, shamanism.) Our pre-modern stories attempted many things, including to explain, predict and control. Modern science is a radically improved version of this limited aspect of earlier stories. Besides, it has originated from and built upon them. Scientists readily acknowledge that myths, legends and stories continue to be the source of current scientific insights. In this sense, a science independent of myth and religion is woefully inadequate for living. The other big limitation of modern science is that it plays virtually no role in mutual or inter-cultural understanding or in our indispensable ethical projects of self-exploration, self-understanding or self-realisation. That role in providing collective and individual self-knowledge and ethical guidance is played by the humanities, interpretative social science and religions.



Mrs. Smita Ratwani
HOD, Science -2 Dept.



Mrs. Lata Palaskar
HOD, Science 1



Ms. Monica Patle
HOD, Science 1



Mrs. Smita Ratwani
HOD, Science 2



Mrs. Ashrita Bhelwa Waghmare
HOD, Science 2



Mr. Vishal Peter



Mrs. Prashansa D'lima



Mrs. Anupama Joseph



Mrs. Suhita Tanikonda



Mrs. Rajeshwari Dalal



Mrs. Shilpa Patil



Mrs. Ciba Thorat



Mrs. Silvia Benjamin



Mrs. Rupali Somkuwar



Mrs. Malini Thorat



Mrs. Arti Kanojiya



Mrs. Aparna Fating



Mrs. Smita Pawar



Mrs. Aleina Jacob

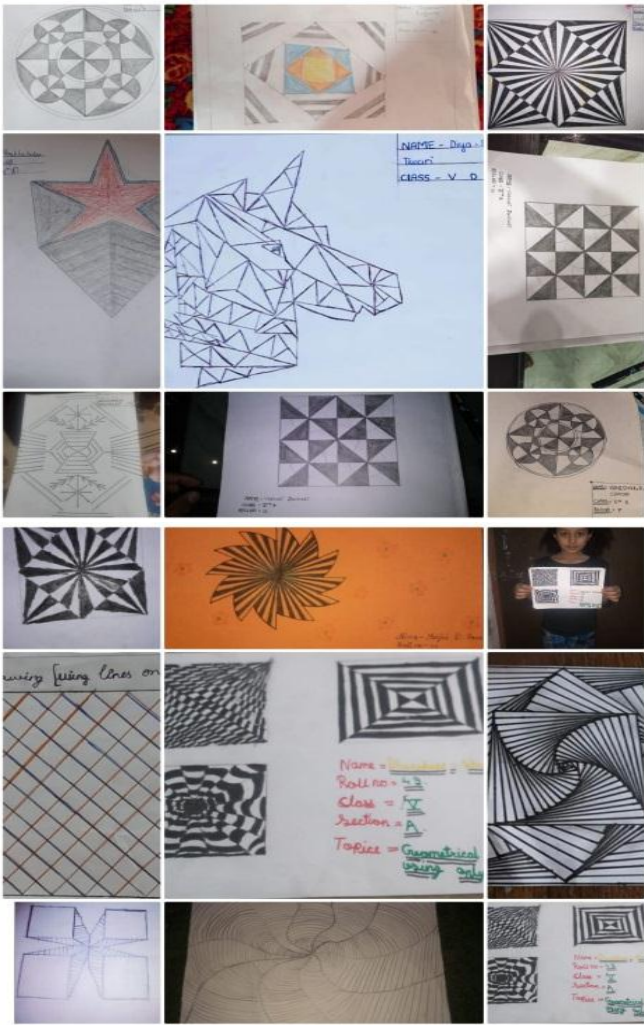


Ms. Sunita Daniel

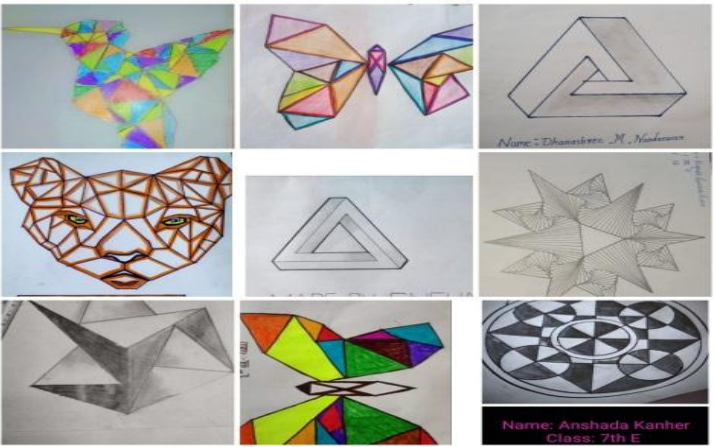
Mathemagician Club
Geometrical Drawing
In charge teacher - Mrs. Rupali Somkuwar & Mrs. Malini Thorat

Class:(5)Topic: Geometrical Drawing s using only lines

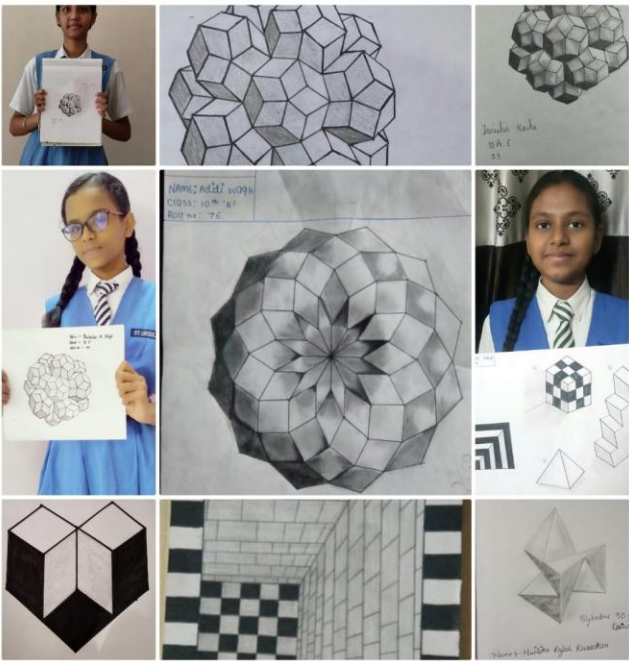
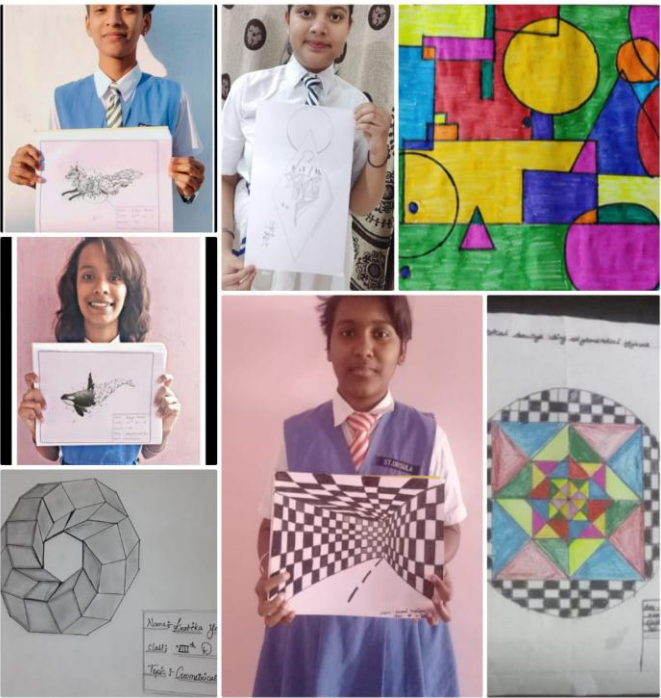
Class:(6)Topic: Geometrical Drawing using only Squares & Rectangles



Class:(7)Topic: Geometrical Drawing using only Triangles.

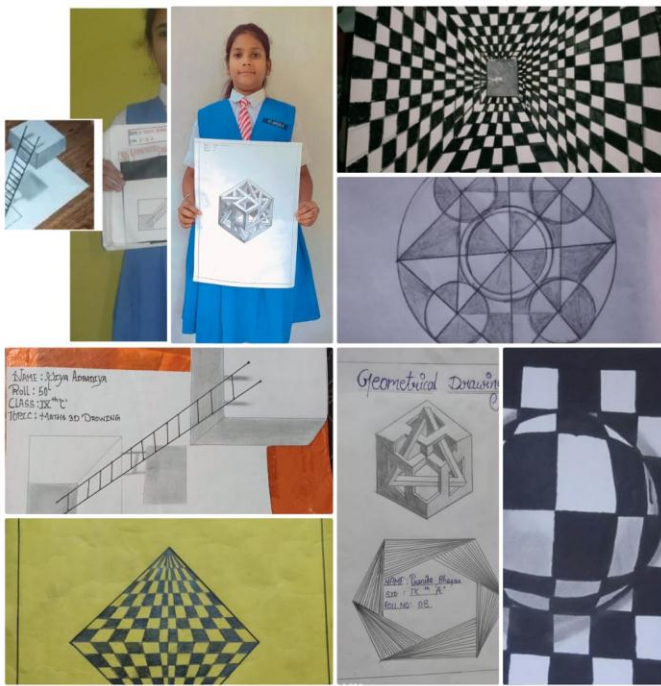


Geometrical Drawings



Class VIII
Geometrical drawing using
all geometrical figures

Class IX and X
3D Geometrical Drawing



Mathemagician Club

Budget Making

Name - Tanishka Dwivedi
Class - 7th A
Roll no -21
Class Teacher - Arti Mam
Subject Teacher - Kritika mam
Mathematic club activity 2

Cable bill

Light bill

Water bill

Grocery

LIC

Name - Darshi Tiwari
Class - 7th A
Class Teacher - Arti Mam
Subject Teacher - Kritika mam
mathematic club 2 activity

Vegetables

My Home

To make financial status we should make home budget

Name - Rida Khan ,
Class - 8th E
Class Teacher - Mrs.Gloria Malgewar
Subject teacher - Mrs. Lata Palaskar
Mathmagicians Club activity 2
Class 8th - preparing monthly budget with parents

To make financial status We should make
Home budget

Milk

Food grains

Electricity bill

House

Spending

My Monthly Budget

Particulars	Amount	Actual
Income		
Salary	10,000	10,000
Gifts	5,000	5,000
Phone/Internet	2,000	2,000
Other income	1,000	1,000
Total Income	18,000	18,000
Expenditure		
Rent	3,000	3,000
Food	15,000	15,000
Medical expenses	10,000	10,000
Transport	6,000	6,000
Other expenses	1,000	1,000
Total Expenditure	35,000	35,000

savings

Home

Name-Sara Robert
Class-8th 'E'
Class Teacher -Gloria ma'am
Subject Teacher -palaskar ma'am
Mathmagicians club Activity -2
Preparing Monthly Budget with Parents

MONTHLY BUDGET

"Preparing Monthly Budget with parents"

Name Anya Gupta
Roll no 97
Section A
Std 7th

To make financial status We should make home budget

car

Home

BALANCING A BUDGET A LIFE SKILL ABOUT MANAGING YOUR MONEY

Spending

My Monthly Budget

Particulars	Amount
Income	
Salary	40,000
Gifts	10,000
Total Income	50,000
Expenditure	
Rent	10,000
Food	15,000
Medical	5,000
Transport	5,000
Other	5,000
Total Expenditure	40,000

A LIFE SKILL ABOUT MANAGING YOUR MONEY

My Monthly Budget

Particulars	Amount
Income	
Salary	10,000
Gifts	5,000
Total Income	15,000
Expenditure	
Rent	3,000
Food	10,000
Medical	5,000
Transport	5,000
Total Expenditure	23,000

Mathematics

My Monthly Budget

Particulars	Amount
Income	
Salary	10,000
Gifts	5,000
Total Income	15,000
Expenditure	
Rent	3,000
Food	10,000
Medical	5,000
Transport	5,000
Total Expenditure	23,000

Cheque

Preparing monthly budget with parents

Bank

Name -Arpita wagh
class:10E
Roll no : 60

Name - Sadiya Ansari .
Class - 8th 'F'
Subject Teacher - Mrs. Shilpa Patil
Mathmagicians Club Activity 2
Class VIII - "Preparing Monthly Budget with parents"

Home

Maths Short Movies

5th Class

<https://youtu.be/BoS1xwAEmxc>

A world without mathematics

<https://youtu.be/CINfrC-qJRM>

The importance of maths in everyday life

6th Class

<https://youtu.be/cy-8IPVKLIo>

History of Mathematics

7th Class

<https://youtu.be/a19A04HMTVo>

Why Should You Study Math?

8th Class

https://youtu.be/FOQ_RUF20NA

MATH IM'POSSIBLE | A SHORT FILM ON MATHEMATICS| DOSE OF INSPIRATION

9th Class

<https://youtu.be/OmJ-4B-mS-Y>

The Map of Mathematics

10th Class

https://youtu.be/xeyJG_uBm-SE

Story of Mathematics

<https://youtu.be/eZH7F4DLURc>

Mathmagician Activity 2

Short Movie

Activity: Maths short movie along with questionnaire

Mathemagician club of St. Ursula Girls High School organized the activity of Maths short movie on 16th December 2020. The aim of this activity was to teach students basics of mathematics in a simple and playful manner and to overcome the phobia in maths. A 15-20 min short video was shown to students of classes V to X. The videos were based on basic concepts of maths applied in everyday life like – probability, permutation, etc. The videos not only showed the basic concept but also showcased the history of great mathematician and their discoveries. The videos were followed by a questionnaire for students based on video. It was indeed an interesting and educational experience for the students. The activity was thoroughly enjoyed by them. The teachers of maths department are thankful to the principal Mrs. Rachna Singh for her constant support and encouragement to staff and also to HOD of maths department Mr. Vishal Peter for always being a guiding source to them.

Maths Short movie Questionnaire Class V, VI, VII

MATHEMAGICIANS CLUB
Activity IV
Maths Short movie Questionnaire
"A world without mathematics"
Class - V

Q1. Give six examples of everyday life where maths is required?
Q2. Which services are delivered by EPSCF fund researchers using mathematics?
Q3. Which are the four areas that will be affected by not having proper materials of mathematics?
Q4. Write four to five lines you learnt from the video?

MATHEMAGICIANS CLUB
Activity IV
Maths Short movie Questionnaire
"The history of Mathematics"
Class - VI

Q1. How did number 19 was written by Babylonians?
Q2. Which number represented by John Barrow by Egyptian?
Q3. In which two continents Hindu Arabic numeral 0 to 9 was introduced by Greek & Arab mathematicians?
Q4. In today world, which device is used to do complex calculations?
Q5. Write in 4 to 5 lines on history of mathematics?

MATHEMAGICIANS CLUB
Activity IV
Maths Short movie Questionnaire
"The history of Mathematics"
Class - VII

Q1. Write 4 areas in which mathematics helps you every day?
Q2. Write three things you need to know to understand maths?
Q3. Which are the 4 basic operation in mathematics?
Q4. Write any 3 laws used in mathematics?
Q5. Why you should study mathematics explain in 5 to 6 lines?

Maths Short movie Questionnaire Class VIII, IX, X

MATHEMAGICIANS CLUB ACTIVITY 4
MADE BY: ROHINI KARNIK
CLASS: I.A.
ROLL NO.: 30
ST. URSULA GIRLS' HIGH SCHOOL, MANGALURU

QUESTIONNAIRE

Q1. Mathematics gives the rules to compute with numbers.
Q2. Mathematics helps to understand the world around us.
Q3. Mathematics helps to solve problems in everyday life.
Q4. Mathematics helps to develop logical thinking and reasoning skills.
Q5. Mathematics helps to improve memory and concentration.

QUESTIONNAIRE

Q1. Write 4 areas in which mathematics helps you every day?
Q2. Write three things you need to know to understand maths?
Q3. Which are the 4 basic operation in mathematics?
Q4. Write any 3 laws used in mathematics?
Q5. Why you should study mathematics explain in 5 to 6 lines?

MATHEMAGICIANS CLUB
Activity IV
Maths Short movie Questionnaire
"The history of Mathematics"
Class - VIII

Q1. Write 4 areas in which mathematics helps you every day?
Q2. Write three things you need to know to understand maths?
Q3. Which are the 4 basic operation in mathematics?
Q4. Write any 3 laws used in mathematics?
Q5. Why you should study mathematics explain in 5 to 6 lines?

MATHEMAGICIANS CLUB
Activity IV
Maths Short movie Questionnaire
"The history of Mathematics"
Class - IX

Q1. Write 4 areas in which mathematics helps you every day?
Q2. Write three things you need to know to understand maths?
Q3. Which are the 4 basic operation in mathematics?
Q4. Write any 3 laws used in mathematics?
Q5. Why you should study mathematics explain in 5 to 6 lines?

MATHEMAGICIANS CLUB
Activity IV
Maths Short movie Questionnaire
"The history of Mathematics"
Class - X

Q1. Write 4 areas in which mathematics helps you every day?
Q2. Write three things you need to know to understand maths?
Q3. Which are the 4 basic operation in mathematics?
Q4. Write any 3 laws used in mathematics?
Q5. Why you should study mathematics explain in 5 to 6 lines?

Resource Person: Mr. Ajay Sudhirchandra Kedar

Senior Maths Teacher and State level resource person for Maths Orientation

Webinar Co-ordinators :

Ms. Monica Patale

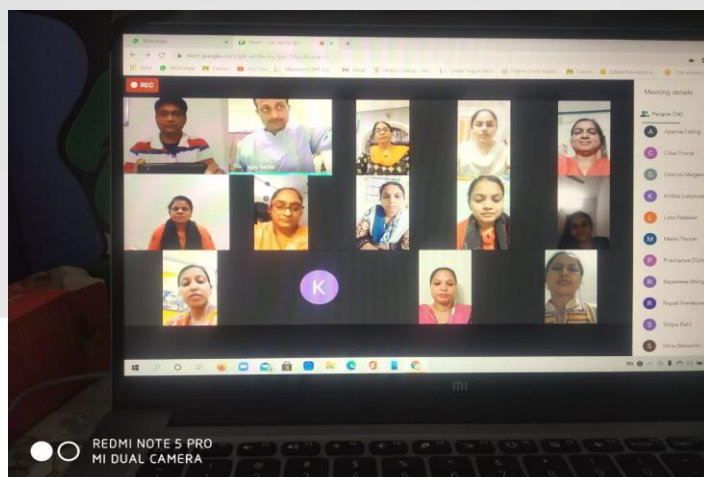
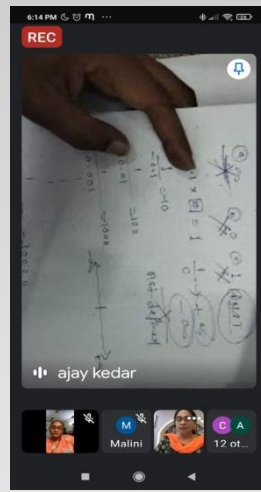
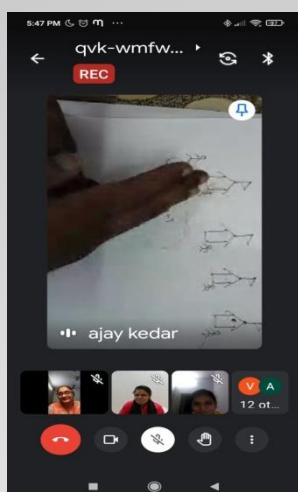
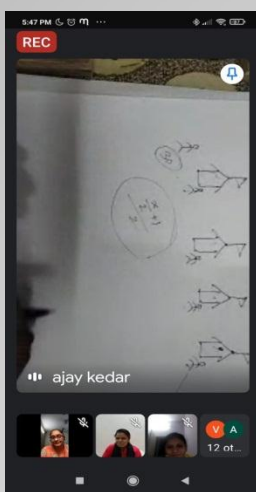
Mrs. Lata Palaskar

Date: 12th December 2020, Saturday

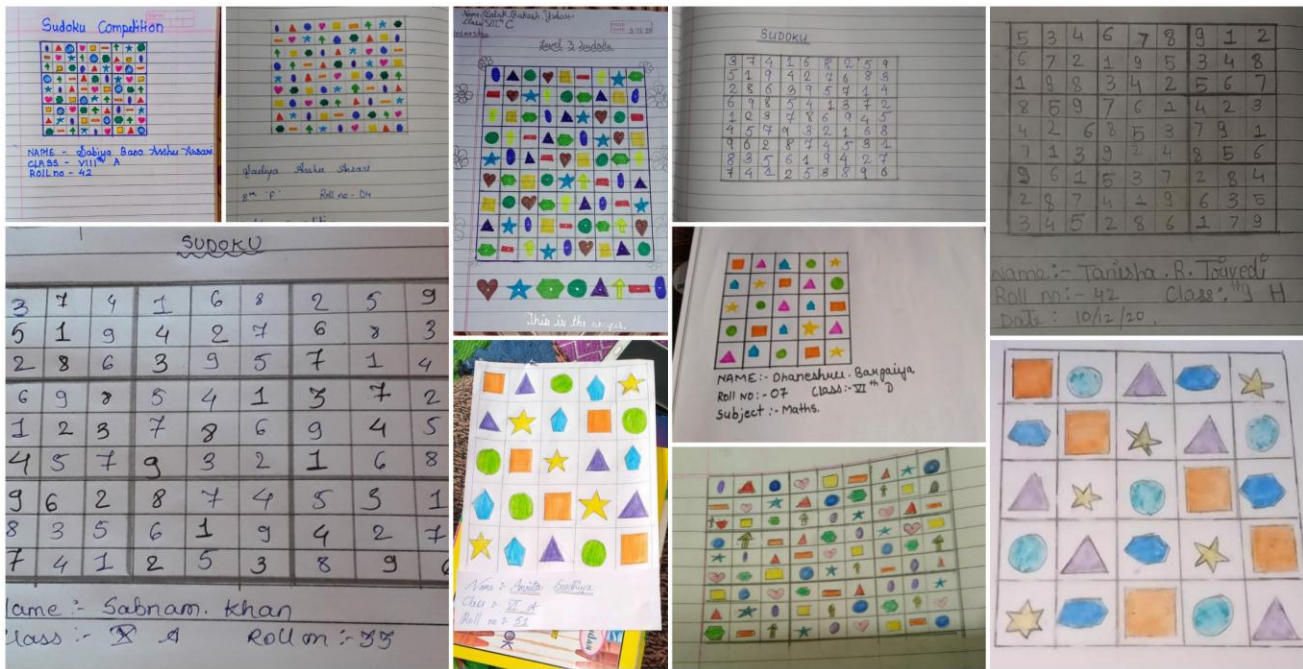
Time: 5.30 PM

The Department of Mathematics conducted the webinar by subject expert for teachers. The Speaker of the session Mr. Ajay Sudhirchandra Kedar presented the information on teaching strategies needed for effective learning process in mathematics.

We would like to thank Principal Mrs. Rachna Singh, Supervisors Mrs. Rajashree Bhingardive, Mrs. Minakshi Dongre, H. O. D.s of Maths Department – Mr. Vishal Peter and Mrs. Aparna Fating for their encouragement and guidance.

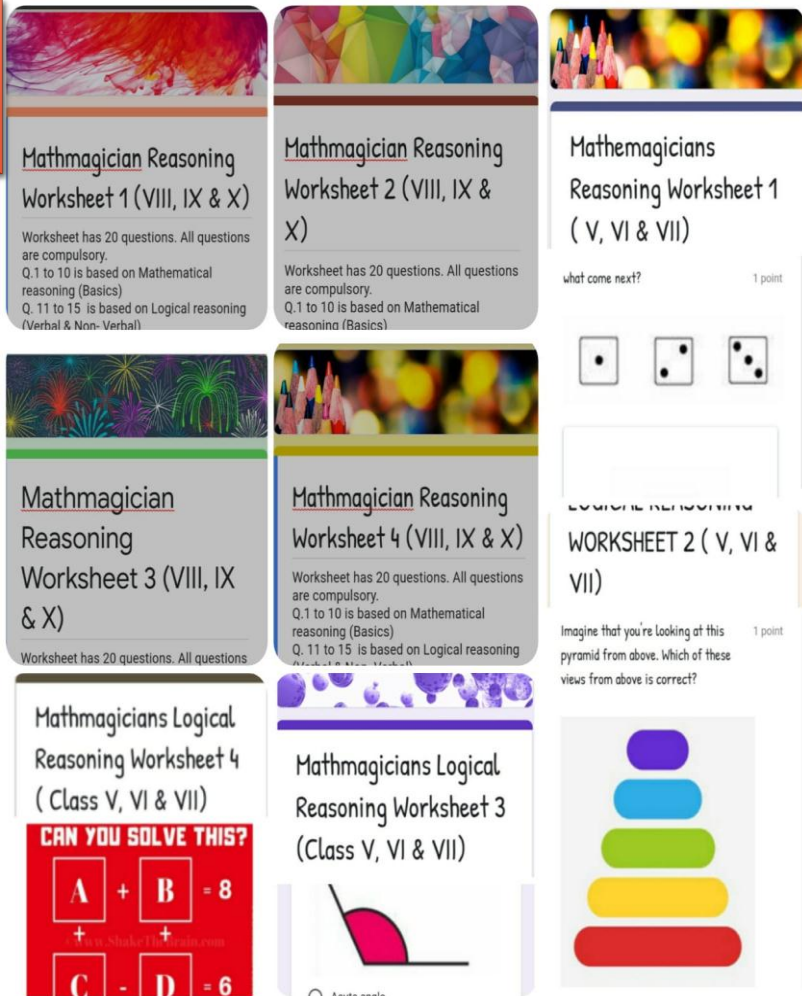


Sudoku Competition



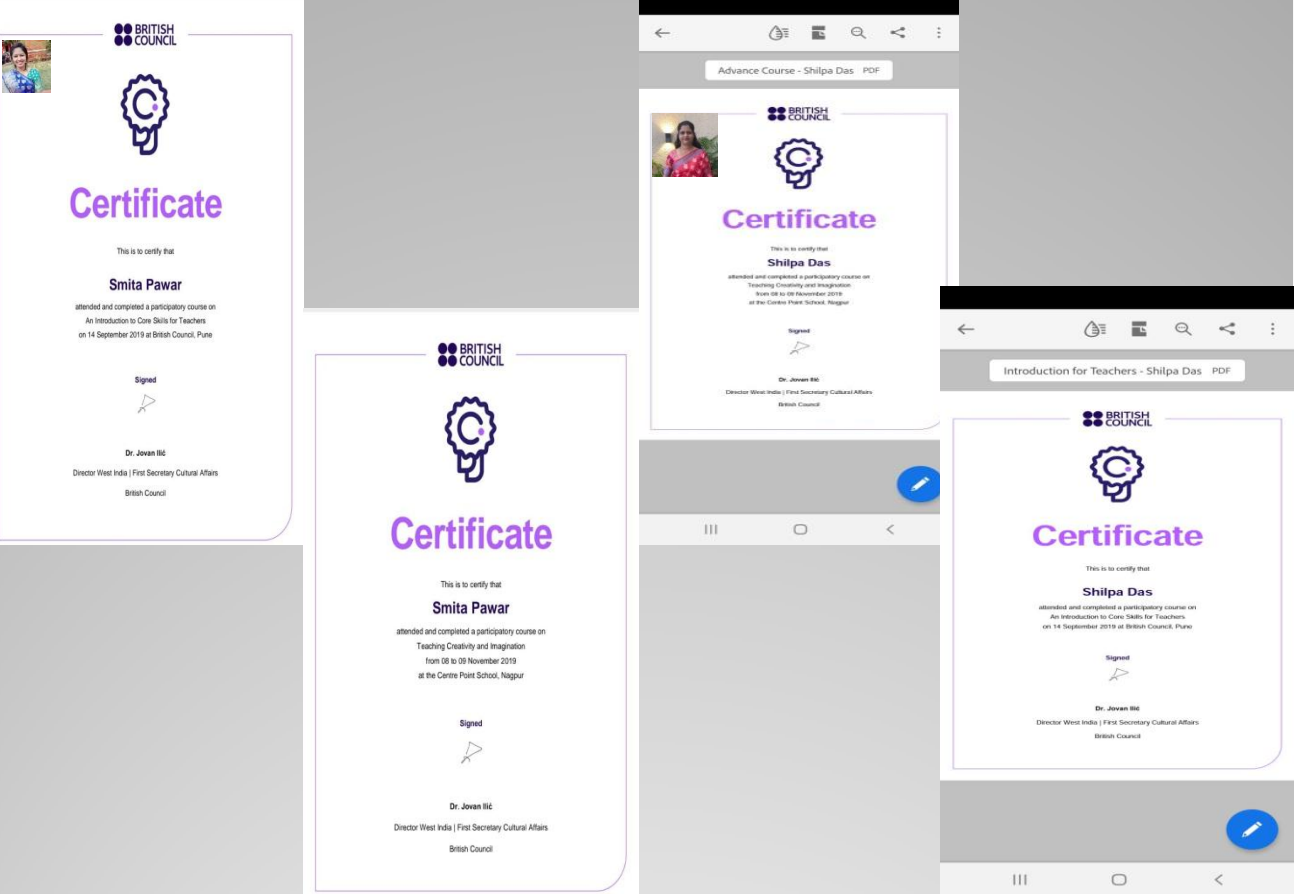
Mathmagicians Logical Reasoning Worksheet

Mathmagicians Logical Reasoning worksheets consisting of questions based on the basics of mathematics as well as verbal and nonverbal reasoning were giving every week to the students. These Worksheets were designed by Mrs. Prashansa Dlima for classes 8th, 9th & 10th and Miss Alina Jacob for classes 5th, 6th & 7th which consisted of questions helping to strengthen the basics of mathematics as well as logical verbal and nonverbal reasoning questions. These Worksheets helped in developing the mathematical and reasoning abilities of the students.



British Council Certification

Two teachers Mrs. Shilpa Das and Mrs Smita Pawar received certificate for British Council Teachers Training Course on "Introduction to core skill for teachers" which was held in Pune last year and another training was "Teachers Creativity and imagination" in the month of October 2020 through zoom .



Swachata Pakwada

Conducted by LAD College, St Ursula Junior College and Hislop College, Nagpur at Futala lake on 11th Dec 2020 at 11:30 am.



Christmas Celebration



January 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31					1 New Year Day	2
3	4	5	6	7	8	9
10	11	12	13 Lohri	14 Pongal/ Makar Sankranti	15	16
17	18	19	20	21	22	23
24	25	26 Republic Day	27	28	29	30

Important Days and their Information:

• 1st January – New Years Day

People greet and wish each other Happy New Year. Exchanging messages, greeting cards and gifts are part and parcel of the New Year celebration.

• 13th January– Lohri

Lohri is a popular Punjabi winter folk festival celebrated primarily in the Punjab region. The significance and legends about the Lohri festival are many and these link the festival to the Punjab region. It is believed by many that the festival commemorates the passing of the winter solstice.

• 14th January – Pongal

Pongal is a major celebration in India and people celebrate it for about four days. *Pongal, which is celebrated in countries such as India, marks the start of sun's six-month long journey northwards (Uttarayana). This observance occurs annually around January 14 each year.*

• 14th January– Makar Sankranti

Makara Sankranti or Maghi, is a festival day in the Hindu calendar, dedicated to the deity Surya. It is observed each year in the lunar month of Magha which corresponds with the month of January as per the Gregorian calendar and is a day the people of India and Nepal celebrate their harvest.

•26th January – Republic Day

India's constitution came into effect on Republic Day, January 26, 1950. This date was chosen as it was the anniversary of *Purna Swaraj* Day, which was held on January 26, 1930. The constitution gave India's citizens the power to govern themselves by choosing their own government. Dr Rajendra Prasad took oath as India's first president at the Durbar Hall in the Government House, followed by a residential drive along a route to the Irwin Stadium, where he unfurled India's national flag. Ever since the historic day, January 26 is celebrated with festivities and patriotic fervor across India.

Activities to be done in the Month of January

Science Activities

Class	Name Of Activity	Date of Submission
V	Advertisement	15th January 2021
VI	Advertisement	15th January 2021
VII	Poster Making	15th January 2021
VIII	Science Working Model	12th January 2021
IX	Essay Writing Competition	9th January 2021
X	Power Point Presentation	12th January 2021
VII, VIII, IX & X	Quiz on Google form	19th January 2021
	Expert Talk	3rd week of January 2021
	Movie	16th January 2021

Note: Quiz is for all the students of class VII, VIII, IX & X in Google Form on 19th Jan at 11.00 am. Student will send their responses on the same day by 9.00 pm.



“Impossible only means that you haven’t found the solution yet.”



Happy New Year

Happy New Year!
We might be apart
today, but you're
always in our
heart.

Take care and
stay safe in these
uncertain times.
We miss you!

2021