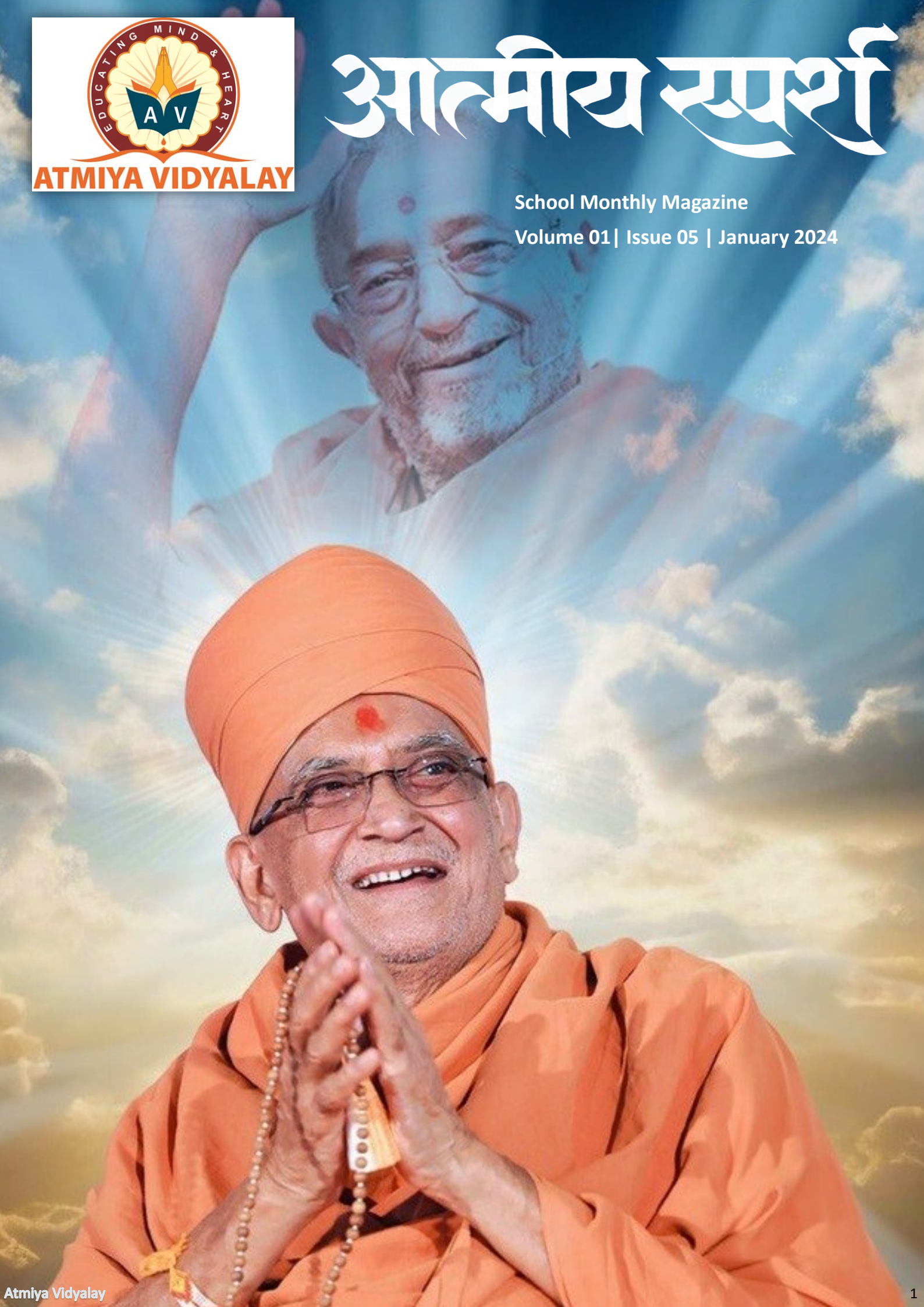


# आत्मीय स्पर्श

School Monthly Magazine

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## જય સ્વામિનારાયણ...!

તો આવી રીતે અભ્યાસમાં ડૂબવા શું કરવું જોઈએ? બે વાત કહેવી છે, પહેલું આપને જે પ્રભુને માનીએ એ પ્રભુને સંભારીને સવારને સાંજે દસ-દસ મિનિટ પ્રાર્થના કરવી જોઈએ, ધૂન કરવી જોઈએ. બીજું પ્રભુ પાસે પ્રાર્થનામાં બળ માંગવું જોઈએ. હે મહારાજ! હે સ્વામી! ગુરુહરી સ્વામીજી! મને બળ આપજો મને ખૂબ સારું ભણવું છે. મને યાદ રહે એવી મારા પર કૃપા કરજો. આ બે વસ્તુ પ્રભુ પાસેથી માંગીને પછી ભજન કરીએ, પ્રાર્થના કરીએ, ધૂન કરીએ ચોક્કસ મને વિશ્વાસ છે કે તમે સારામાં સારું ભણી શકો. બીજું સ્વામીજીને ખૂબ ગમે જે વિદ્યાર્થીઓ જે સ્કૂલમાં ભણતા હોય તે ટીચરોની આજ્ઞામાં ટુકટુક વર્તતા હોય. જે કાંઈ સોંપ્યું હોય આપણને એ પહેલું કરી દેવાનું પછી રમત કરવાની, ગમ્મત કરવાની. બાળક છો એટલે અદભૂત હોય, નેચરલ હોવું જોઈએ. પણ પહેલું જે કરવાનું છે એ જ કરવાનું. સ્વામીજી એમના સંતોને પણ કહેતા " work while you work, play while you play" This is the happy ending તો આપને જે કરવા માટે આવ્યા છે એમાં પાછું વાળીને જોવું ન જોઈએ. ખૂબ મહેનત કરવી જોઈએ. એનો વિશ્વાસ પૂરો તમને હોવો જોઈએ કે તમે આવું સવાર સાંજ દસ-દસ મિનિટ ભજન કરીને ખરેખર વાંચવા બેસસો honestly, sincerely. સ્વામીજીનો એક પ્રસંગ તમને કહું, વાંચવા બેસીએ ત્યારે કેવું થાય? આપણે પાંચ-દસ મિનિટમાં બે-પાંચ ડાફોડિયા તો મારી જ લઈએ. સ્વામીજીની મેં તમને એક વાત કહેલી કે માથા પર બુક મૂકી હોય તે કલાક સુધી બુક એવી ને એવી જ રહે તે પડે નહીં. એ કેટલા બધા એકાગ્ર થઈને, કેટલું બધું CONCENTRATION સાથે વાંચતા હતા. તમે નહીં જોયું હોય અમે વડીલોએ જોયું છે. એક ગ્રામોફોન આવતો. આપણો સહજ માનવ સ્વભાવ છે કે કોઈ કવિતાની પંક્તિઓ હોય, કોઈ ભજનની પંક્તિઓ હોય કે કોઈ ગાયનની પંક્તિઓ હોય સાંભળીએ અને ગમી જાય એટલે આપણે એને ગણગણીએ. તો સ્વામીજીને એક ગીત બહુ ગમતું હતું. સ્વામીજી વાંચવા બેસતા હતા ત્યારે એમના મિત્રો ગ્રામોફોન લાવ્યા. ગ્રામોફોનમાં રેકોર્ડ આવતું એના પર એક પિન મૂકીને ચાવી ભરીને ચાલુ કરે એટલે પેલી રેકોર્ડ ગોળગોળ ફરે ને એમાંથી અવાજ આવે અને ગાયન સંભળાય આપણને. એ અઢી-ત્રણ મિનિટની બંતાસુંધી રેકોર્ડ આવતી સ્વામીજીનું ગમતું ગીત મૂક્યું તો સ્વામીજીનું મન તો ભાનમાં આવ્યું પણ આંખ પણ બહાર એ બાજું ન ગઈ. એ કેટલું બધું ધ્યાનથી સ્વામીજી વાંચતા હતા.

To be continue...





# Love Rules the World



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# Editorial

ATMIYA VIDYALAY

## Dear Students, Parents and Well-Wishers !

As we flip through the pages of this magazine, we're not just reading words; we're diving into a world of creativity, innovation, and boundless potential. Every article, every story, every artwork and every photograph is a testament to the incredible talent that exists within our school community.

This magazine "**Atmiya Sparsh**" is more than just a collection of work; it's a time capsule capturing the spirit of our time. The lessons we've learned and the dreams we've nurtured.

But as we celebrate our achievements, let's not forget the importance of looking ahead. The future is ours to shape and the choices we make today will determine the kind of world we'll inherit. Let's strive for excellence in everything we do, be it academics, sports, or the arts. Let's embrace diversity, respect individuality, and foster a culture of empathy and compassion.

Remember, every moment is an opportunity. Let's seize it with both hands and make the most of it. Together, we can create a brighter future for ourselves and for generations to come.

# Armed Forces Flag Day

**Date:** 11/12/2024

**Title:** Armed Forces Flag Day

**Venue:** Atmiya Vidyalaya, Manjalpur, Vadodara

**Faculty Coordinator:** Mr.Abhishek Mishra



The **Armed Forces Flag Day** or the **Flag Day of India** is a day dedicated to honouring the soldiers and veterans of India's armed forces. It has been observed annually in India on **December 7** since **1949**.

## Significance and Purpose

Flag Day serves to promote three basic causes:

- Rehabilitation of battle casualties
- Welfare of serving personnel and their families
- Resettlement and welfare of ex-servicemen and their families

The Armed Forces Flag Day commemoration and the collection of funds through distribution of flags. It is a time for Indians to express its gratitude and appreciation to the current and veteran military personnel of India and to acknowledge those who died in service to the country.

On the Flag Day all three branches of the Indian armed forces, the Indian Army, the Indian Air Force and the Indian Navy, arrange a variety of shows, carnivals, dramas and other entertainment programmes to showcase to the general public the efforts of their personnel to ensure national security. Throughout the country small flags and car flags in red, deep blue and light blue colours representing the three Services are distributed in return for donations.

## Flag Day Fund

The original Fund was set up in 1949, by the Defence Minister's Committee. In 1993, the Defence Ministry of India consolidated related welfare funds into a single **Armed Forces Flag Day fund**. Those funds include,

- Amalgamated Special Fund for War Bereaved, War Disabled and other ex-Servicemen/Serving Personnel
- Flag Day Fund
- St Dunstan's (India) and Kendriya Sainik Board Fund
- Indian Gorkha Ex-Servicemen's Welfare Fund.

# Scratch Programme

**Date:** 11/12/2024

**Title:** Application of Scratch Tool

**Participation :** Students of Standard 6<sup>th</sup> to 8<sup>th</sup>

**Venue:** Atmiya Vidyalaya, Manjalpur, Vadodara

**Faculty Coordinator:** Himanshu Dodiya (Dip. Computer Engg. - SoDS - Atmiya University)

Piyush Kashiyan (IT Engg, - FoET - Atmiya University)

Janak Maru (Computer Engg. – FoET - Atmiya University)

## Objective

The primary objective of this workshop was to introduce students to the fundamentals of computers and the Scratch programming tool, empowering them to understand basic programming concepts through a hands-on demonstration of a simple Pinball game. The session aimed to:

- Familiarize students with basic computer fundamentals.
- Introduce the concept of visual programming using Scratch.
- Develop problem-solving and creative thinking skills through game development.

## Agenda

### 1. Welcome & Introduction

- Brief introduction to the workshop objectives.
- Icebreaker activity to engage and connect with students.

### 2. Introduction to Computer Fundamentals

- Understanding what a computer is and its key components (CPU, input/output devices, and storage).
- Explanation of software vs. hardware.
- Overview of the operating system and its importance.
- Emphasis on the role of programming in today's digital world.

### 3. Introduction to Scratch Tool

- Overview of Scratch as a visual programming platform.
- Exploration of the Scratch interface and tools.
- Importance of Scratch for creating animations, games, and stories, particularly for beginners.

### 4. Demonstration: Pinball Game Application

- Step-by-step creation of a basic Pinball game in Scratch.
- Designing game sprites (ball, paddles, and obstacles).
- Programming movements using Scratch blocks.
- Adding interactive elements like scoring and sound effects.
- Demonstrating the gameplay and encouraging active participation.



# Scratch Programme

## 5. Hands-On Activity

- Students practiced modifying the Pinball game.
- Suggested customizations such as changing colors, adding obstacles, or improving the game design.

## 6. Wrap-Up & Q&A

- Open discussion to answer student questions.
- Encouragement to explore Scratch further with online resources.
- Closing remarks and feedback collection.

### Outcome

- ⇒ The workshop successfully introduced students to computer fundamentals and programming concepts using the Scratch tool.
- ⇒ By demonstrating and creating a Pinball game, students learned to design, code, and personalize a project, sparking their interest in programming and creative problem-solving.



# Fire Evacuation Training for Teacher's

**Date:** 17/12/2024

**Title:** Fire Evacuation Training

**Venue:** Atmiya Vidyalaya, Manjalpur, Vadodara

**Faculty Coordinator:** Hirendan Gadhavi (Sub-Officer Badamdi Bag, Vadodara)

As a school administrator, ensuring the safety of your students and staff is a top priority. One of the most critical components of any school's safety plan is fire safety. Fires can break out unexpectedly, and without proper preparation, they can cause devastating damage. Therefore, it's crucial to conduct regular fire safety training for school staff, teachers, and students to minimize risks and prevent accidents.

## Importance of Fire safety Training for Schools

Schools are often crowded places, with a large number of students, teachers, and staff members. This makes them particularly vulnerable to fire hazards. A fire outbreak can be catastrophic, causing property damage and putting the lives of students and staff at risk. Fire safety training is essential to ensure everyone's safety in case of a fire emergency.

## Types of Fire Safety Training Programs

There are several types of fire safety training programs that schools can implement to ensure the safety of their students and staff. Some of these programs include:



1. **Fire Evacuation Training:** Fire evacuation training teaches students and staff how to evacuate a building in case of a fire emergency. It involves identifying fire exits, determining evacuation routes, and practicing drills to ensure everyone knows what to do in case of a fire.
2. **Fire Prevention Training:** Fire prevention training is designed to educate students and staff about the common causes of fires and how to prevent them. It covers topics such as electrical safety, the proper use of flammable materials, and smoking regulations.



# Fire Evacuation Training for Teacher's

3. **Fire Safety Education:** Fire safety education teaches students about the dangers of fire and how to stay safe in case of a fire emergency. It involves educating students about the different types of fires, how to use fire extinguishers, and how to call for help.
4. **Fire Safety Training for Teachers and Staff:** This type of training is specifically designed for teachers and staff members. It covers topics such as fire safety regulations, identifying potential fire hazards, and responding appropriately in case of a fire emergency.



## Benefits of Fire safety Training

1. **Minimizes Risk:** Fire safety training can help minimize the risks of a fire outbreak. When everyone in the school is trained on how to prevent fires and respond to them, the chances of a fire outbreak are significantly reduced.
2. **Saves Lives:** Fire safety training can save lives. When everyone knows what to do in case of a fire emergency, they can quickly and safely evacuate the building, reducing the risk of injuries or fatalities.
3. **Reduce Property Damage:** Fire outbreaks can cause extensive property damage. However, with proper fire safety training, everyone in the school can learn how to prevent fires and minimize damage in case of a fire emergency.



Fire safety training is crucial for schools to ensure the safety of their students, teachers, and staff. It can help minimize the risks of a fire outbreak, save lives, and reduce property damage. Therefore, it's essential to implement fire safety training programs, such as fire evacuation training, fire prevention training, fire safety education, and fire safety training for teachers and staff. By doing so, schools can create a safe learning environment for everyone.



# Career Awareness Program for Class 10 Students:

**Date:** 20/12/2025

**Title:** Career Awareness Program

**Venue:** Atmiya Vidyalaya, Manjalpur, Vadodara

On 20th December, a Career Awareness Program was conducted by Anand Sir for the parents and students of Class 10. The session emphasized the importance of relentless assessment and guidance for students to achieve excellent results in their board exams.



During the program, following agendas were addressed:

1. The introduction of two practice papers to ensure continuous assessment and better preparation for the board examinations.
2. Admission guidance for Science and Commerce streams in the school for the upcoming academic year.



The program highlighted the need to provide proper direction to students after their board exams to help them make informed career choices. Parents and students appreciated the initiative, which aimed at building a strong foundation for academic success.

# National Mathematics Day Celebration

**Date:** 21/12/2024

**Title:** National Mathematics Day Celebration.

**Venue:** Atmiya Vidyalaya, Manjalpur, Vadodara

On the occasion of National Mathematics Day, school organized an assembly to honor the legendary mathematician Srinivasa Ramanujan, whose contributions to the field of mathematics have left durable mark on the world. The event featured an inspiring speech delivered by Ms. Dhruvisha Patel, a student from Class 11th Science, which captivated the Students in assembly.

She began her speech by acknowledging the significance of the day, emphasizing how Ramanujan's brilliance in number theory and infinite series continues to inspire mathematicians globally. Despite facing challenges due to limited formal education, Ramanujan's determination and creativity earned him international acclaim, making him a role model for generations.

In her address, she highlighted the role of mathematics in our lives. From the elegance of the Golden Ratio found in nature, art, and architecture, to its practical applications in modern technologies, she illustrated how math is both a science of precision and an art of beauty. She drew vivid examples such as the spirals of seashells and iconic structures like the Parthenon to show the harmony mathematics brings to the world.



Furthermore, She explored the practical importance of mathematics in various fields:

- It powers cutting-edge technologies like smartphones and navigation systems.
- It is integral to the work of engineers in building infrastructure.
- Doctors depend on mathematical principles for medical imaging.
- Economists use it to analyze and predict market trends.

She also emphasized the joyful exploration of mathematics, encouraging students to see it beyond the textbooks. A Mathematics is about solving puzzles, discovering patterns, and thinking critically. It is a universal language which brings innovation in life.

At the conclusion of her speech, she left the assembly with a great message: mathematics is not just about numbers; it is the foundation of logic, creativity, and discovery. She urged everyone to embrace

# Teacher's Workshop on Competency Based Assessment

**Date:** 26/12/2024 & 27/12/2024

**Title:** Competency Based Assessment

**Participation:** Mrs. Naina Agarwal, Mrs. Bhavisha Patel and Mrs. Shilpa Bhujbal

**Venue:** Cygnus World School

The member of the training was **Dr. Nivedita Ganguli, Principal, DAV Ahmadabad**, is all that a student might ever need. With a Ph.D. (Emotional Intelligence, Stress and Job Satisfaction) and gold medal in **MA (Psychology)** in her kitty, she holds a vast experience in training and development. Her award list too is exemplary. To list, she has won **Dr. Zakir Hussain 'The Great Teacher Award'** from CSRL, Certificate of honor for her achievement as a school counselor in 2012- 13 by CBSE and Expressions India, among many others. She also is the author of Journey towards Awakened Life and Changing Perspective Changing Life both of which have been highly successful and helpful to the readers.

## AGENDA:

### DAY 1:

#### ROLE OF GOOD ASSESSMENT

1. Objective of Assessment. Difference between Assessment for learning Vs. Assessment of learning Vs. Assessment as learning.
2. What should assessment be like?
3. Role of Questions
4. Difference between Mechanical learning and learning and with understanding?
5. Type of Questions.





# Teacher's Workshop on Competency Based Assessment

Assessment is FOR learning and no longer assessment is OF learning. The role of questions is to meet these key objectives of assessment. Good assessment measures learning and progress on Knowledge, Skills and Abilities (Competencies). Facilitators should give quality; quick and positive feedback is important for improvement of the students. Life is not about only pen and paper so, facilitators should be focus on development of skills and abilities of the student which they apply this knowledge in real world application. If we learn assessment well then, our pedagogy will improve. Facilitators have to appreciate the students by giving them positive feedback instead of negative feedback. Negative feedback can damage self esteem of the student. Facilitators should take care that their feedback will never demotivate the student. Context should relate to topic when we designed the questions for the students. Good questions help facilitators in student engagement. Prop learning and warmup exercise in between interaction is necessary to grasp the attention of the student because day by day the attention span of the students decreasing. So, goal-based activity, group discussion, and many different activities we can implement in the classroom for student attention, development of skills and for abilities.



There are many tools for assessment which we can use in the classroom to assess the student it increases the chances of improvement. Regular assessment helps facilitators to diagnose, remedial and interventions. Assessment is a on going process and evaluation is the final product.

Assessment help us to find out minimum level of learning (MLL) of the student. Facilitators should use different tools of assessment it will help to inculcate 5C's in the students

(Communication, collaboration, creativity, choice, critical thinking). Facilitators should form the questions on the basis of Bloom's taxonomy it will help them to identify individual learning needs and to make changes in the lesson plan as well as to design the assessment for the students. The questions should be dialogue based, cased study based and image related to connect the students with real life and it should be context dependent. Facilitators should maintain the record of assessment it helps them to tack the progress of the students.

## DAY 2:

1. What are the different kinds of questions?
2. Principal of devising a good Free response question (FRQ).
3. Best practices in making subjective questions
4. Best practices in creating good FRQ'S.
5. Constructed response questions scoring rubric (Scoring guide). Assessments are a measure of level of proficiency and the questions must be aligned with the overall objective of assessment.

# Teacher's Workshop on Competency Based Assessment

Concept, context and content makes a good question. Free response questions require students to supply or construct their own responses and answers. Free response questions help facilitators to accurately demonstrate student knowledge, to reveal misconceptions, assessing multiple answer formats, assess complex skills and to give quick and positive feedback about partial credit. There are different types of questions based on the format of the question (Essay, True or False), based on type of responses (Open or Close response), Based on skill or cognitive levels being tested (Recall, Conceptual, Application).

A good CRQ'S should NOT be taken directly from the wording in textbooks or readings and Check for trivial or inconsequential details. Best practices in making subjective questions avoid too many blanks in one item, do not provide clues by adjusting the length of the blank, don't give clues to the correct response in the question this should be remember by the facilitator in forming fill in the blanks. Best practices in making short and long answer questions involved the expected answer should be proportionate to the allotted score, the task should be clear and concise for students to understand.



Facilitators have to used CRQ Scoring Rubric or Scoring Guide. CRQ Scoring Rubric is a set of scoring or grading or evaluation guidelines to evaluate a student response. There are two Scoring Rubric: Holistic Rubric and Analytical Rubric.



The entire knowledge about Competency based assessment helps facilitators to form the questions by using Bloom's taxonomy , to assess the student ,to identify individual learning needs to develop skills and abilities in the students which help them in real world application, to give quick and positive feedback which increase the chances of improvement and give encouragement and motivation in learning to the students.

# Teacher's Workshop on Story Telling

**Date:** 28/12/2024

**Title:** Storytelling as a Pedagogical

**Participation:** Mrs.Jalpa Barot, Mrs.Hemal Jethva,  
Mrs.Kavita Amin , Mrs.Swati Mallik and Ms.Divya Patel

**Venue:** Anand Vidya Vihar, Gotri

## Workshop Objectives:

- \* To introduce participants to the art and craft of storytelling. Introduction of Storytelling as Pedagogy.
- \* To develop participants' skills in crafting engaging narratives.
- \* To provide a platform for participants to share their stories and receive constructive feedback.
- \* To foster creativity and imagination within the group.

## Workshop Activities:

Session 1: Introduction, Ice Breaking Activity & Expectations

Session 2: Elements of Storytelling

Session 3: Teaching Subjects with storytelling

Session 4: Incorporating storytelling in the classroom Storytelling Exercises.



Storytelling is an effective pedagogical tool. The main aim of the storyteller is to enlighten, engage and entertain their audience. Telling a story engages the audience in a unique way. It is not only an effective tool for teacher to organize material, but it also gives the students a lively approach to communicate what they have learnt





# Teacher's Workshop on Story Telling

Stories will stay with people much longer than facts or statistics. if a teacher becomes an excellent story-teller, he or she can ensure that any concept taught will be remembered for years to come. stories bring information, knowledge and truth to life.

## Benefits of Storytelling

Stories are narrated with the objective to instil imagination in the mind of students.

Stories impact the mind of students and get imprinted for life leaving an everlasting impact in the long run.



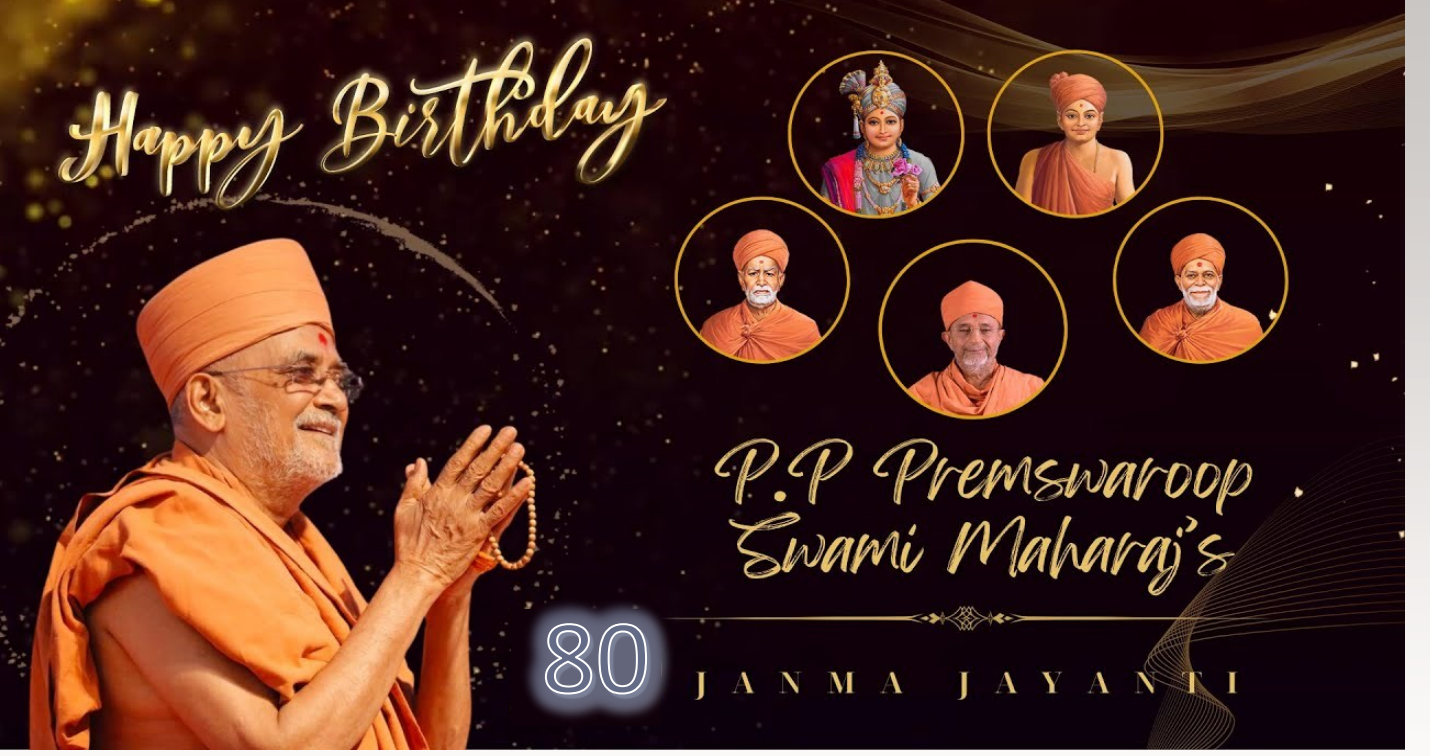
Storytelling promotes enhancing socio-economic skills, increasing levels of cognitive thinking, discovering the meaning of events, developing a love for language and stories, strengthening verbal skills, gaining self - confidence, strengthening writing skills, strengthening imaginative skills, internalising the traditional structure and convention of stories.

Group discussion on storytelling styles and techniques





## Birthday Celebration



### मन को मंदिर बनाने का अवसर!

જય શ્રી સ્વામિનારાયણ

તારીખ 27 ડિસેમ્બર ના રોજ આત્મીય સંસ્કારધામ, સણિયા કણદે, સુરત ખાતે આત્મીય યુવા મહોત્સવ - 2024 કાર્યક્રમ યોજાયો. આ પ્રસંગે ગુજરાત રાજ્યના પૂર્વ કેબિનેટ મંત્રી અને ધારાસભ્યશ્રી પૂર્ણેશભાઈ મોદી ઉપસ્થિત રહી બ્રહ્મસ્વરૂપ પરમ પૂજ્ય હરિપ્રસાદ સ્વામીજી અને પ્રગટ ગુરુહરી પરમ પૂજ્ય પ્રેમસ્વરૂપ સ્વામીજીના દર્શન કરી આશીર્વાદ મેળવ્યા.



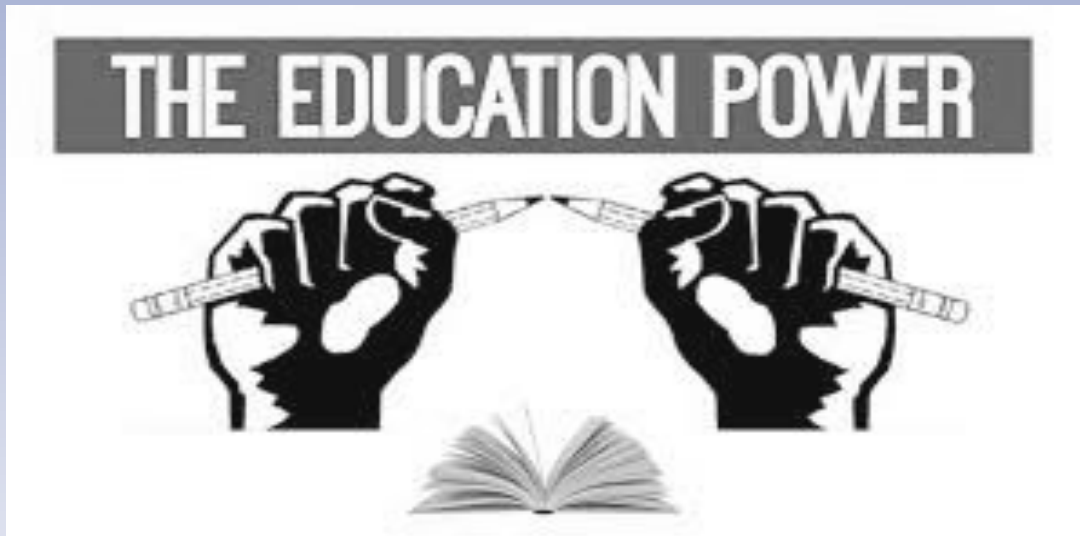
સમાજ જીવનમાં કામ કરનારાઓનો એક વર્ગ ઊભો કરવો તે જ સાચા સંતની નિષ્ઠા છે. સ્વામીજીના હૃદયમાં યુવાનો માટે જે પ્રેમ અને લાગણી છે. તે આ યુવા સંમેલનમાં દેખાયો હતો. પરમ પૂજ્ય સ્વામીજીએ સમાજસેવા અને યુવાનોના સંસ્કાર ઘડતરનું મહામુલું કાર્ય કર્યું છે. સમગ્ર ગુજરાતની જનતા વતી હરિભક્તો અને કાર્યકરોને આ ભવ્ય આત્મીય યુવા મહોત્સવમાં શુભાભિનંદન પાઠવું છું.

‘આત્મીય વિદ્યાલય’ માં પણ સ્વામીજીના જન્મદિવસની ઉજવણી કરવામાં આવેલ જેમાં વિદ્યાર્થીઓ એ સ્વામીજીનું ભાવભરે પૂજન કરી ને આશીર્વાદરૂપી પત્રિકા તથા ચોકલેટ ભેટ સ્વરૂપે પ્રાપ્ત કરી.



# Teacher's Corner

## "The Power of Education Shaping Future"



Education is the key to unlocking our potential and Shaping the future. As teachers we have the privilege and responsibility to nurture the minds of the next generation, empowering them to think critically.

Let us continue to inspire and guide, remembering that our impact reaches far beyond the classroom.

Together, we are not only teaching Subject, we are teaching life lessons, resilience and the Courage to dream big.

One of the most rewarding experiences for me is Seeing the Spark of understanding in a child's eyes when they grasp new concept.

Let's Celebrate the power of education, embrace the uniqueness of each Student and continue working together to build a brighter tomorrow.

**Mrs. HELLY TAMBOLI**  
**TEACHER**



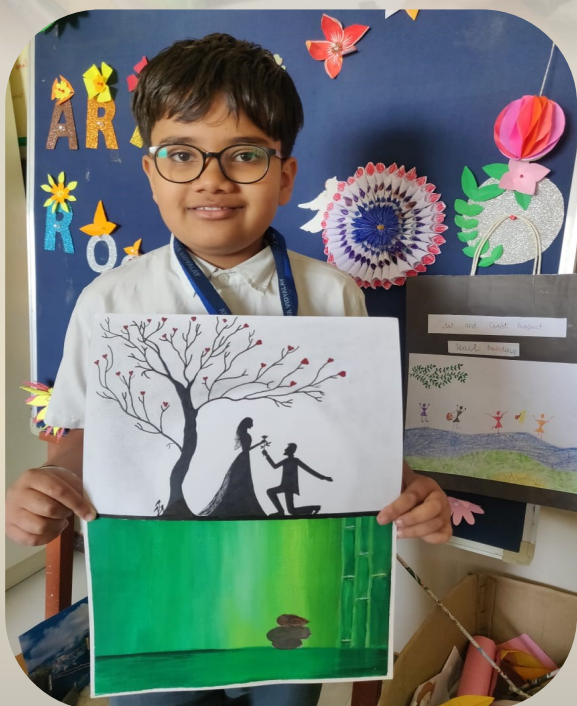
## Student's Corner



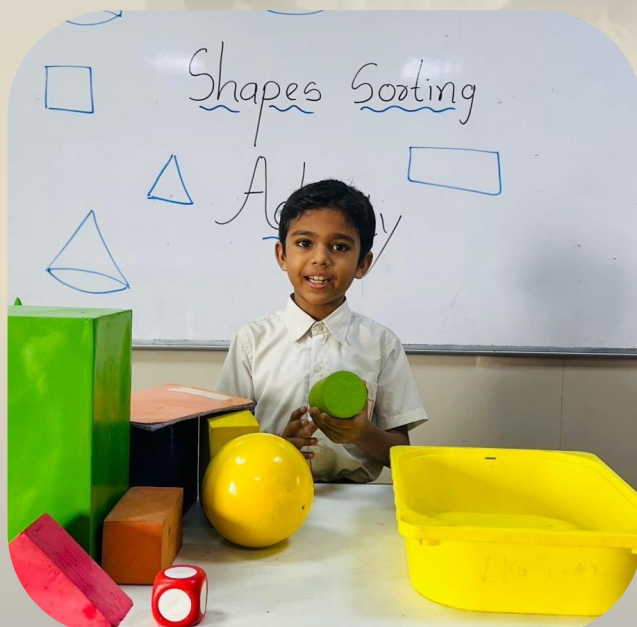
Warli Art Mohit Patni 4A3



Parthiv Patel & Harsh Patel 7A2



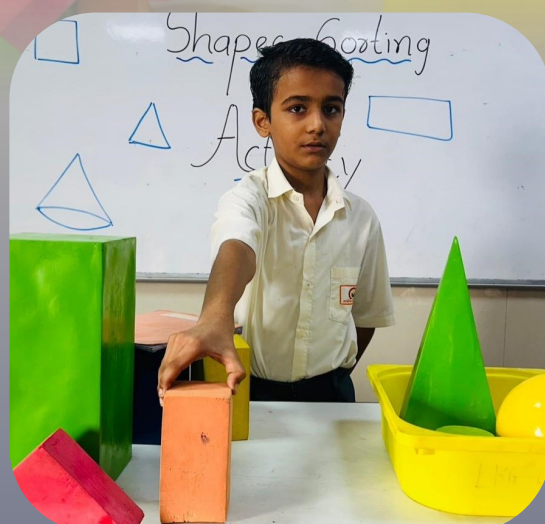
Shaded Painting Nirmal Parmar 5A1



Maths Activity 3-D Shapes 2A1



Christmas Activity 7A2



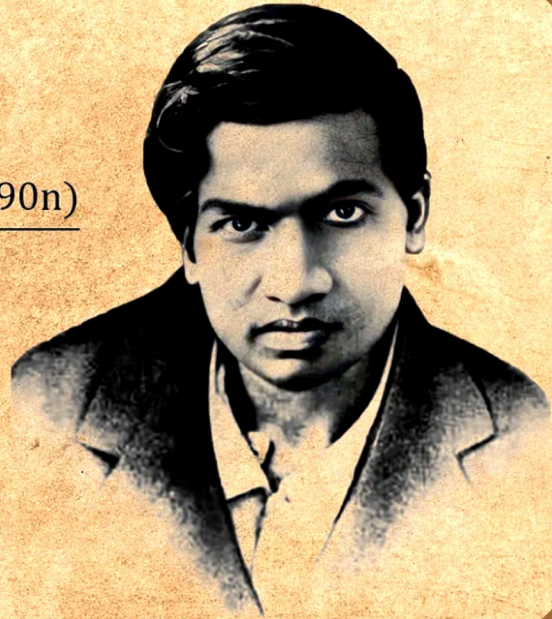
Maths Activity 3-D Shapes 2A1



# An Inspirational Biography

$$\frac{1}{\pi} = \frac{2\sqrt{2}}{9801} \sum_{n=0}^{\infty} \frac{(4n)! (1103 + 26390n)}{(n!)^4 396^{4n}}$$

$$\pi = \frac{9801}{1103\sqrt{8}}$$



## Srinivasa Ramanujan: The Mathematical Prodigy

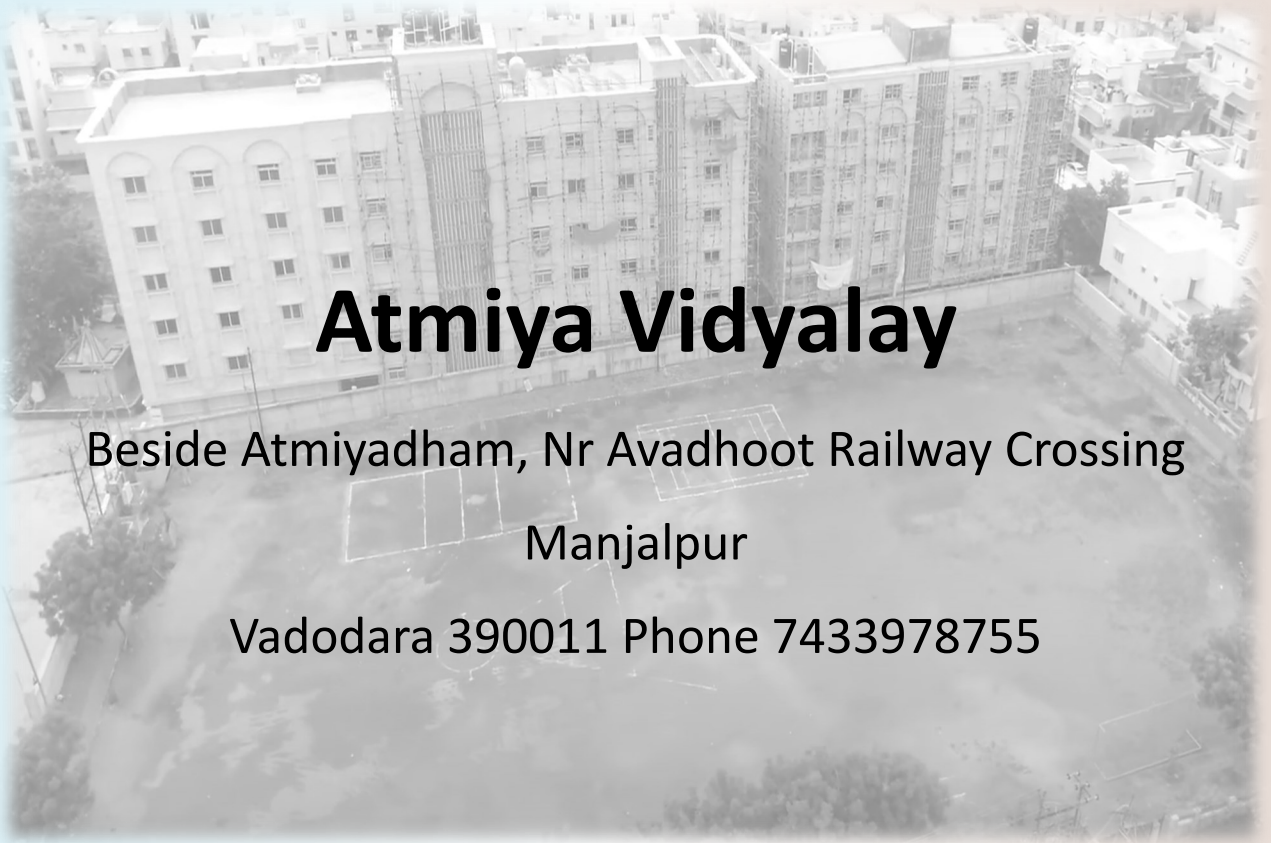
Srinivasa Ramanujan was born on **December 22, 1887**, in Erode, Tamil Nadu, India, into a humble Brahmin family. His father, K. Srinivasa Iyengar, worked as a clerk, and his mother, Komalatammal, was a homemaker and a singer at a local temple. From an early age, Ramanujan displayed a prodigious talent for mathematics, mastering advanced concepts without formal training. Despite struggling in other subjects, his exceptional mathematical ability earned him scholarships, which he eventually lost due to his focus solely on mathematics.

Ramanujan was deeply inspired by a book titled "**A Synopsis of Elementary Results in Pure and Applied Mathematics**" by G.S. Carr, which he encountered as a teenager. This book, filled with mathematical formulas and theorems, served as the foundation for his groundbreaking discoveries. His unwavering belief in his work and encouragement from friends and mentors helped him overcome financial and social obstacles to pursue mathematics.

### Contributions to Mathematics:

- Revolutionary work on **infinite series** and **continued fractions**.
- Development of Ramanujan's **tau function** and **modular forms**.
- Formulation of the **partition function** and its **asymptotic properties**.
- Discovery of over **3,900 mathematical results**, many of which remain crucial to modern mathematics.

Ramanujan returned to India in 1919 after his health deteriorated, partly due to malnutrition and illness in England. He died on **April 26, 1920**, at just 32 years of age. Despite his short life, his intuitive brilliance and enduring contributions solidified his place as one of the greatest mathematicians and his Birthday is Celebrated as National Mathematics Day in history. His legacy continues to inspire generations of mathematicians worldwide.



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