JPS EDGES

The Newsletter for 21st Century Schools Worldwide

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JULY 2023

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Central Board of Secondary Education

Committed to Equity and Excellence in Education

FUTURE OF LEADERSHIP INITIATIVE

LEADERSHIP INITIATIVES AT JPS

- **Academic Rigor. You Become an Academic Wizard**
- **TEDX at JPS. You Become A Ted Speaker**
- **National Cyber Resource Centre**
- **Green School Program. You Become A Green Warrior**
- **Leadership Integrated Curriculum Empowered Leaders!**
- **ISA Accreditation. You Go Global**
- **Google Certified. School You Become A Tech Genie!**
- **SPACE Program. You Don't Touch The Skies, You Cross Them Way Beyond!**
- **Excellence In Sports. You Break World Record**

Welcome

❝ **Greetings of the season to all our readers!**

Dear Readers,

- I hope this message finds you well and excited for the upcoming academic year. As we embark on this new journey together, I wanted to take a moment to reflect on the incredible advancements that have shaped the landscape of education and to share with you our school's commitment to embracing the transformative power of Artificial Intelligence (AI).

- In an era where technology continues to evolve at a rapid pace, it is essential for educational institutions to adapt and integrate innovative tools that can enhance the learning experience for our students. AI, with its ability to analyze vast amounts of data, make predictions, and automate certain tasks, presents us with unprecedented opportunities to create more personalized and effective learning environments.

- At our school, we firmly believe that AI can play a significant role in shaping the future of education. By leveraging AI technologies, we can better understand individual student needs, tailor instruction to their unique learning styles, and provide timely interventions to support their growth and development. AI-powered adaptive learning platforms can help identify knowledge gaps, offer personalized recommendations, and enable students to progress at their own pace, fostering a sense of empowerment and ownership over their education.

- Furthermore, AI holds tremendous potential to enhance the role of educators in the classroom. It can assist teachers in gathering real-time insights about student progress, facilitating data-driven decision-making and enabling them to provide targeted guidance. By automating administrative tasks and streamlining workflows, educators can focus more on what truly matters—building strong relationships, fostering critical thinking, and nurturing the creativity of our students.

- While we embrace the transformative potential of AI, we also recognize the importance of balance and human interaction in education. Our commitment to nurturing the whole child remains unwavering, and we understand that technology should complement, rather than replace, the unique qualities and skills our educators bring to the classroom. We are dedicated to fostering a learning environment that blends cutting-edge technology with the warmth of human connection, creating an atmosphere where students can thrive academically, socially, and emotionally.

- As we embark on this exciting journey together, our school is committed to providing ongoing professional development opportunities for our educators, ensuring they are equipped with the knowledge and skills to harness the full potential of AI. We will also maintain a strong focus on data privacy and security, ensuring that all AI-driven systems adhere to the highest ethical standards and protect the confidentiality of our students.

✪ In conclusion, I am truly excited about the possibilities that AI brings to education. By embracing this technology, we can personalize learning experiences, empower our students, and better prepare them for the challenges of the future. Together, let us embark on this journey, leveraging the power of AI to shape a brighter, more inclusive, and engaging educational experience for all.

✪ We're always interested in hearing your views. We invite articles on the topic ' **Social and Emotional Learning**' for our next issue of the newsletter. If you have any comments about the newsletter, or if you'd like to tell us about what's happening at school, please email us at **principal@jpschennai.org.**

Thank you for your continued support, and I look forward to an exceptional year ahead!

Tr. Saravanan Thiyagarajan
Principal
Jain Public School

Social Media Trends

YouTube Trends

Jain Public School World
Turtle Day
119 Views

Jain Public School
International Day Against...
132 views

Jain Public School
#mothersday Day
92 views

Jain Public School World
Food Safety Day
83 views

Jain Public School
Ramzanmubarak
78 views

Jain Public School World Day
Against Child Labour
71 views

Jain Public School Happy
Father's day
71 views

Jain Public School World Bee Day
49 views • 1 month ago

Jain Public School
#International Firefighter's...
42 views

Infocus

The Role of AI in Education

Artificial Intelligence Chatbots

Hi!
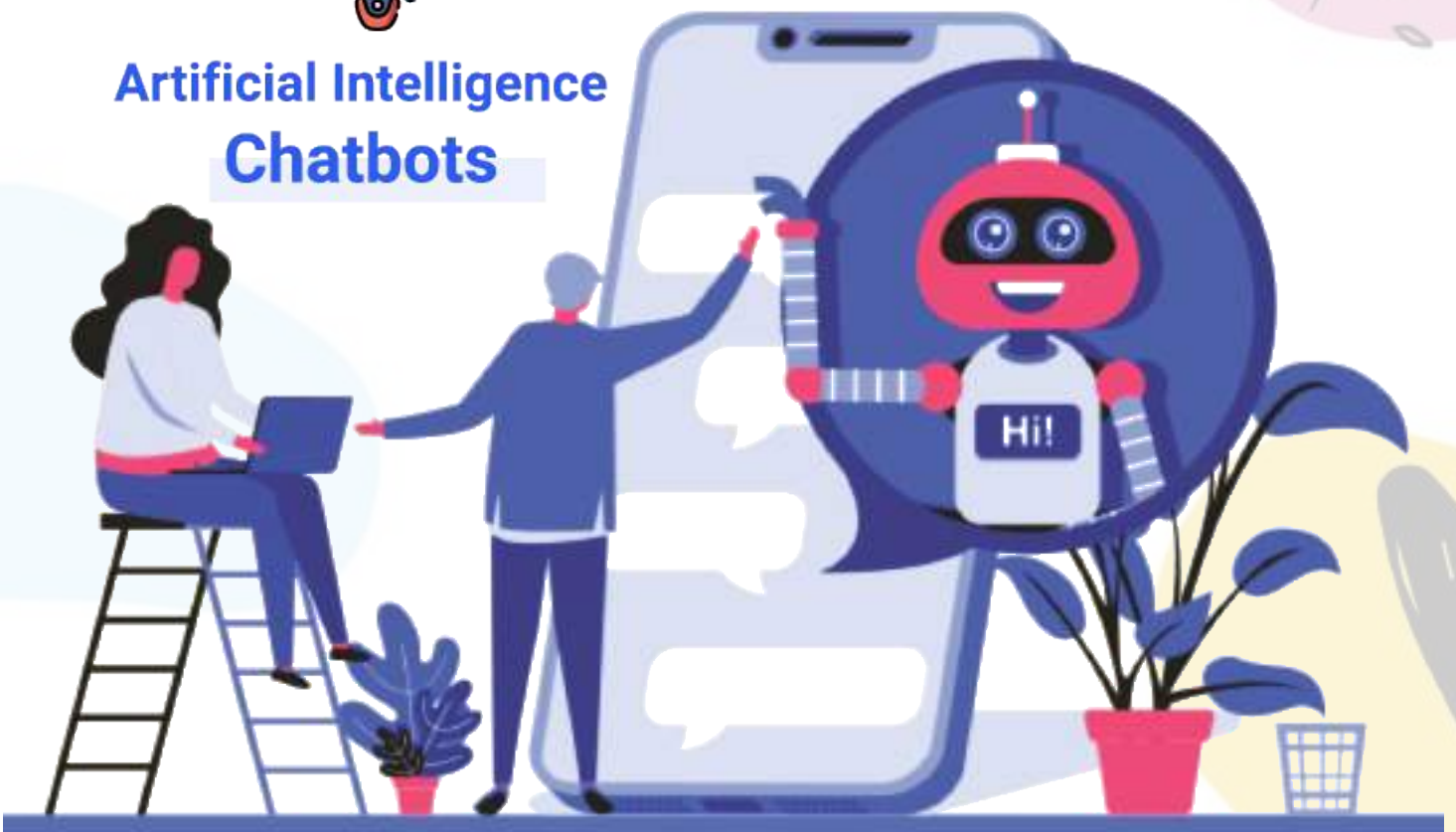
1. Personalized learning: empowering every student tailoring education to individual needs adaptive learning platforms for personalized instruction identifying knowledge gaps and providing targeted support.

2. Enhancing teaching practices: empowering educators real-time insights for informed decision-making data-driven instruction and intervention strategies automating administrative tasks for more teacher-student interaction.

3. Promoting critical thinking and creativity ai as a tool for complex problem-solving fostering innovative thinking and creativity encouraging collaboration and project-based learning.

4. Building 21st Century Skills Developing Technological Literacy and Competencies Preparing Students for the Future Workforce Exposing Students to AI Ethics and Responsible AI Use.

5. Bridging the achievement gap addressing learning disparities through personalization tailored support for at-risk students increasing access to quality education and resources.

6. Supporting inclusive education AI as an enabler for students with special needs enhancing accessibility and accommodations cultivating inclusive learning environments

7. Ethical considerations and data privacy ensuring responsible use of student data establishing ethical guidelines for ai in education protecting student privacy and confidentiality

8. Preparing Students for the AI-Powered Future Nurturing Digital Literacy and Computational Thinking Understanding AI's Impact on Society and Careers Equipping Students with Future-Ready Skills

9. Transforming Assessment and Evaluation AI-Enabled Assessment Tools for Comprehensive Evaluation Analyzing Performance Patterns and Progress Over Time Authentic and Dynamic Assessments for Deeper Learning

10. Driving Institutional Efficiency and Resource Allocation Automating Administrative Tasks and Streamlining Workflows Optimizing Resource Allocation for Better School Management Reducing Redundancies and Enhancing Operational Efficiency

AI has the potential to revolutionize education by enabling personalized learning experiences, supporting teachers in their instructional practices, fostering critical thinking and creativity, bridging achievement gaps, promoting inclusivity, and preparing students for a future driven by AI. By embracing AI in schools, we can unlock new opportunities and create a dynamic and engaging educational environment for all students.

KG CORNER

Kudos to the tiny tots of kindergarten, who have explored their talents through various art forms is given.

ARTICLE
The Role of AI in Education

Mr. M.Karthik
Librarian
Jain Public School

Artificial Intelligence also known as Machine Intelligence is intelligence demonstrated by machines in contrast to natural intelligence In Computer Science AI research is defined as the study of "Intelligence agents": any device that perceives its environment and takes action that maximize its chance of successfully achieving its goal AI is applied in learning and problem solving.

Artificial intelligence (AI) is now a part of our lives whether we know it or not, and whether we accept it or not. It has risen to such a status over the years in a slow but steady manner.

Everything that we do like buying clothes and shoes on the internet as well as watching shows on TV is influenced to various extents by AI. However, the question that needs to be asked in this context is what effect would this have on education?

SCOPE

Capabilities generally classified as AI include successfully understanding human speech, competing at the highest level in strategic game systems, autonomous cars, intelligent routing in content delivery network and military simulations.

Artificial intelligence was founded as an academic discipline in 1956, and in the years since has experienced several waves of optimism.

AI IN EDUCATION

Artificial Intelligence enhances the quality of education. Over the last decade, there are several challenges of learning, including language processing, reasoning, planning, and cognitive modeling have been addressed by the artificial intelligence applications. In fact, both education and Artificial Intelligence have been made for each other. Whereas, education is a means to develop minds capable of leveraging the knowledge pool, while Artificial Intelligence provides tools for developing a more accurate and detailed picture of how everything works.

There are many advantages that artificial intelligence provide like tutoring, grading, any personalization in education, feedback on course quality, immediate feedback to students, etc., and a few previous examples really prove it such as :

The ultimate goal of 'Artificial Intelligence' is also said to be a virtual facilitator for the learning environments. It is to create virtual human-like characters who can think, act, react, and interact in a natural way, responding to and using both verbal and nonverbal communication. It also aims to pave the way for new learning pathways in the coming years. Because education is a domain largely handled by human-to-human interaction. However, integration of AI has been slower to develop the necessary human-like attributes of responsiveness, adaptability, and understanding.

BENEFITS OF AI

Creating a Global Classroom

With AI it would be possible for schools to create global classrooms, as it were. From now on it would no longer matter as to where a student is. If she or he is unable to attend a class due to some reason or the other all she or he would need to do is visit a link, click on it, and the student can join the live classroom. Making education a lot more interesting than before.

AI can quickly interpret a student's needs and design an appropriate assessment. It can show students mastery, repeat lessons as needed and quickly design a personalized learning plan for each student

AI makes it a lot easy for teachers and management to keep track of how well or poorly the students are performing. Such systems can be used to deal effectively with the vast volume of the data and statistics that these schools and colleges normally have. They can use these to create definite reports that help them to understand the progress being made by various students. Universities and educational institutions are increasingly looking to technology to address the challenge of student retention, who enroll in higher education but do not end up obtaining a degree. Since they have the education mid way, they end up not being awarded the degree they had enrolled for. With the Artificial Intelligence and Machine Learning, they are seeking a way to improve the retention refers for higher education in countries like US and India

DISADVANTAGES

Information losses AI is a machine and a machine can break anytime. AI keeps so much information related to lesson. Material and also subject about education to the class. If the machine breaks and AI needs to be repaired. then all information inside will be lost too. You need to re-input again all information inside it so the machine will work as usual. This is truly the disadvantage and if they need it in the crucial time like examination and more, then what you need to do if the machine can't be used. Unemployment If you make teaching activities more effective and efficient using AI, then it can make demand for educators less because machine can do everything so the role of teachers inside the class is not absolute and it becomes unimportant. The size of class has less determination factor for the education quality. It means. AI can decrease the teachers and also the assistants.

Smart technology can improve the experience of education however; this technology can't replace the personal interaction because machine can't communicate students. Interaction and personal connection is still needed and students need it from their teachers.

As you rely on that machine more and more everyday in the class to replace the teaching method and also to help students doing their tasks, they become the technology addicted. They will think they can't do better if they don't use this machine and they don't believe anymore in their own feeling and mind. You don't believe in your own skill but you believe on machine's skill.

CONCLUSION

Artificial intelligence (AI) has slowly but surely entered every area of our lives, from online shopping to TV viewing to everything. AI or Artificial Intelligence. in other words, is the study of man-made computational devices and systems. Today, AI has been a hot topic everywhere and is making its way into education. However, some say it will take over education to the impairment of students, whereas others indicate that AI will revolutionize and improve educations.

The Role of AI in Education
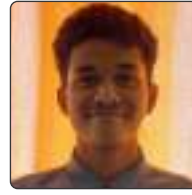
Vedant Mandar Vadke
Sibling of Shaunak Mandar Vadke

Introduction

Artificial intelligence has become prevalent in the modern world. It has become a topic of debate in the modern education sector due to its potential to revolutionise the method of learning and teaching. AI refers to machines or software that can intelligently perform tasks by analysing the data collected through experiments and the people running the system. The AI then uses the data it receives to develop intelligent and efficient solutions. Working of AI is pretty straight forward. It combines large amounts of data with fast, iterative processing and intelligent algorithms, allowing the software to learn automatically from patterns or features in the data. It is evident enough that one of the primary goals of AI in education is to provide personalised learning to every individual in accordance with their ability in different subjects. A teacher can only deliver the necessary topics to the students and not work on every individual's weaknesses and strengths since the teacher is only human.

It can provide a learning experience tailored to each student's learning pace and abilities. It works on algorithms administered to it, ensuring fast analysis of a student's abilities and progress. As technology continues to advance at a rapid pace, it is necessary for educators and policymakers to understand the role of AI in education.

Examples of beneficial AI models

There are several good AI models for education. The personalised learning AI is a very peculiar software/Algorithm. This model works in a simple manner. AI tools can assist learning through tailor-made study schedules and customise education based on the specific needs of individual learners. They identify gaps in knowledge, creating instructions, testing, and feedback systems for learners from preschool to college.

AI-powered software, games, and tool scan set a strategy for students to learn at their speed, time, and repeated practice requirements. This machine-assisted classroom environment can help teachers customise individual lesson plans based on students' needs and go a longway in differentiated and adaptive learning that builds a solid foundation for all kinds of learners. For example, a personalized learning system might identify that a student struggles with a particular mathematics concept. The model would then provide the student with additional resources and support, such as targeted practice problems or videos, to help them master the concept.

As the student progresses, the system will continue to adjust instruction to meet their changing needs. In ways like this, artificial intelligence is of vital importance. Using the example above, we can see how AI can revolutionise modern education. AI can provide personalized instruction for each student, allowing them to learn at their own pace and level of understanding. AI can also help to identify and address learning gaps quickly, allowing students to quickly and efficiently master material.

Challenges and concerns

Perhaps, the biggest concern with AI getting integrated into education is that it might replace human teachers, reducing job opportunities for people who need it. Another concern is privacy. It is clear that the model collects your data.

Most parents might be concerned about this as it could expose student details. Another concern is access to this technology for the economically weaker section of society. Implications of AI in the Future Artificial intelligence holds high importance and will become increasingly important in the future. It looks promising for many tasks. Introducing software such as ChatGPT, Alexa, and Siri gives us a slight idea of AI's importance. This software makes our lives easier for the most part. ChatGPT is a haven for programmers as it helps them approach problems with novel methods that would not appear to them. AI tackles issues humans cannot. As a result, we can realise the future of Artificial Intelligence.

Surya Kumari

Mother of Swathika's (Grade 10)

The main role of AI in education is the automation of both academic and administrative tasks, personalized learning, smart content, and all-time accessibility. Artificial intelligence helps find out what a student does and does not know, building a personalized study schedule for each learner considering the knowledge gaps.

Administrative tasks simplification: grading, assessing, and replying to students is a time-consuming activity that could be optimized by the teacher using AI. Digital learning interfaces with the customization options, digital textbooks, study guides, bite-sized lessons, and much more can be generated with the help of AI.

Continuously evolving personal study programs take into account student's gaps to fill during individual lessons. Personal tutoring and support for the students outside of the classroom help learners keep up with the course and keep their parents from struggling to explain algebra to their kids.

AI-powered solutions make learning available to all students, at any time and from any location. Each learner has his own pace, and having 24/7 access allows kids to experiment with what works best for them without having to wait for an educator.

With the support of automation and cognitive intelligence, AI can assist students to get solutions to their most frequently asked questions in seconds. This not only saves teachers a lot of time but also students' time looking for answers or awaiting a response to their inquiries.

In conclusion, AI(artificial intelligence) plays a major role in the life of a student. It helps them in various forms. The internet is open for any questions and solving it with no time and giving the right and as well as simple explanation can cheer up the kids to learn more.

Christopher Jayapal

Alarice Caroline of Grade 7A

"Our intelligence is what makes us human, and AI is an extension of that quality.
"Yann LeCun Professor, New York University

Artificial Intelligence is a branch of science producing and studying the machines aimed at the stimulation of human intelligence processes. The main objective of AI is to optimize the routine processes, improving their speed and efficiency (provided it has been implemented and supported properly). As a result, the number of companies adopting AI continues to grow worldwide. Roles Of AI In Education Global adoption of technology in education is transforming the way we teach and learn. Artificial Intelligence is one of the disruptive techniques to customize the experience of different learning groups, teachers, and tutors.

1. Personalize Education

Artificial Intelligence helps find out what a student does and does not know, building a personalized study schedule for each learner considering the knowledge gaps.

2. Produce Smart Content

Digital learning interfaces with customization options, digital textbooks, study guides, bite-sized lessons, and much more can be generated with the help of AI. New ways of perceiving information, such as visualization, simulation, webbased study environments, can be powered by AI. Besides, AI helps generate and update the content of the lessons, keeping the information up to date and customizing it for different learning curves.

3. Contribute To Task Automation

Administrative tasks simplification: grading, assessing, and replying to students is a time-consuming activity that could be optimized by the teacher using AI.

4. Do Tutoring

AI tutors are great time-savers for the teachers, as they do not need to spend extra time explaining challenging topics to students. With AI-powered chatbots or AI virtual personal assistants, students can avoid being embarrassed by asking for additional help in front of their friends.

5. Ensure Access To Education For Students With Special Needs

The adoption of innovative AI technologies opens up new ways of interacting for students with learning disabilities. AI grants access to education for students with special needs: deaf and hard of hearing, visually impaired, people with ASD…

AWARDS & ACHIEVEMENT

Our tiny tot **Riddhi Surana** of Grade 1 A five year old had participated in colouring competition of Global Art School in association with **Max on "Marvel -Guardians of the Galaxy" - Max Kids Festival.**

Salangai Poojai

Harshini Gopalakrishnan

D/o Late G. Gopalakrishnan - V. Vidhya

Grade VII

Yuvan karthikeyan, of **Grade III** has Participated with Parampariya Silambam Palli Championship 2023 at Tamilnadu physical education & sports University.

BENJAMIN MOSES P and JOHN SAMUEL P has certified by Trinity College of London for Keyboard initials with distinction (BENJAMIN MOSES 91% and JOHN SAMUEL P 89%), also John was Semi-finalist in NBA and Sportygram - under 9 (state level).

Harshad D.k of Grade 7B
Yoga Competition

Summer
Vacation Project

As we know JPS School for leaders. Leaders of JPS made several Summer vacation projects like 3 in 1 box, Water level sensor, Prototype of car, boat and much more.

3 in 1 box : As the name suggests, a small robot which can do the functions like Height and distance checking, Auto welcoming and Animation projector.

Height and distance checking project -

A solution designed to ensure accurate measurements, reliable and exceptional precision. Its user-friendly interface makes everyone use it.

Auto welcoming project- A solution designed to detect the presence of individuals and welcome them uniquely in a customized way.

Animation project - A solution designed to blend the technology and creativity in education. This project brings your imagination into life. From these stunning art, one can explain or express their emotions in an artistic way.

By Chris Joshua, Sriman venkat, Dharani Kumar, Ricky Patrick and Krithikesh

Reason behind the project - Water level sensor: Water tank overflow is a common problem that results in water wastage, and it's surprising to note that it's not even considered a concern in many households. Though there are many solutions for it like ball valves that automatically cut the flow of water when a certain level is reached but as an electronic engineer, I prefer a solution that includes sensors and automation. **By Chrish Joshua, Krithikesh, Ricky Patrick, Dharani Kumar and Sriman venkat**

Prototype of boat made **by Sophia Raheem, Kavibharathi and Eneyadhaya** (from left to right)

Prototype of car- An remote controlled working prototype of car. To understand how the remote controlled car, drone and other vehicles work. In Future we will modify it to increase aerodynamic efficiency. **By Hashwanth, Shawn, Lakshana komari and Sai thanmika**

Story Telling

JPS conducted story telling sessions, we are all Storytellers, We all live in a network of stories. There isn't a stronger connection between people than storytelling.

AKSHARABHYASAM

Aksharabhyasam- Brilliant, Bright, Blessed Beginning for the Blooming Buds.

On this auspicious occasion, the parents thronged and celebrated the child's leap into a world of learning with JPS School for leader on 10th June 2023 (Saturday).

JPS handholds the new buddies to the educational journey to witness their growth and accomplishments. This event mainly symbolizes the importance of education and lifelong learning.

School Assembly
Felicitation

Sujith of Grade VI has won **1st position** in **Silambam Competition**

Sarvagnya of Grade IX has Completed the level with distinction **Musical Keyboard**

Lokajith DK First place in Interstate Yoga competition

Rajamithran Grade III 4th place in Yoga

Prithika S of Grade V 1st prize in drawing and Handwriting competition. She won bicycle.

Sharshad DK of Grade VII B IInd place in interstate Yoga competition

Yadhunandan of Grade VIII Yoga Nakchatra Award

Budding
Artist

PRANESH S of Grade IV B

Maithri Mishra of Grade IV A

Grade VI A

SCIENCE PROJECT

Arshad Khan of Grade VII A

Aaliya Fathima

SUBJECT
ENRICHMENT PROGRAM

Rithik.R of Grade VIII A
Setting of Curd Science Activity

Setting of curd

By Rithik.R
Class 8A

Micro - organisms

Micro—organisms also known as microbes are organisms that are so small that they can be seen only through a microscope.
They are of 4 types:
Bacteria
Algae
Fungi
Protozoa

Uses of micro - organisms

Micro—organisms can be both useful or harmful.
Some harmful microbes spread diseases.
Friendly microbes such as lactobacillus and rhizobium help in setting curd and replenishing nitrogen respectively.

Materials required

The materials that are required for this experiment are:
1. Milk
2. Curd
3. A utensil (e.g., : Bowl)

Step 1
Fill the bowl with warm milk.

Step 2
Add 1 spoon of curd to the milk.
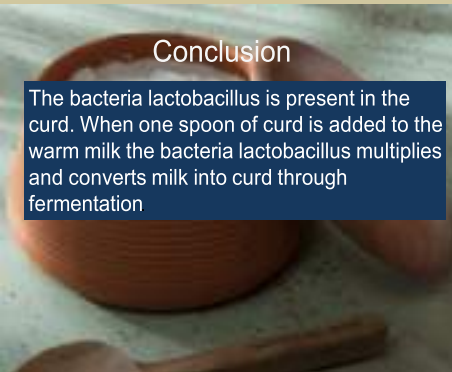
Step 3
Wait for about one day.

Result
After 1 day this milk will have turned into curd. This process is called fermentation

Conclusion
The bacteria lactobacillus is present in the curd. When one spoon of curd is added to the warm milk the bacteria lactobacillus multiplies and converts milk into curd through fermentation

Thank You

Turning Milk into Curd by Fermentation

Amrithavarshini.A
of Grade VIII B

I Added 1 spoon of curd to 1 cup of Milk the previous night .

*I got the Result after **10 hours 7:05 this morning** *

My Observation

As I used Cow milk to ferment.

1. There were parts of the milk skin floating on the top.

2. Whey was present above the fermented part.

3. There was A lot of difference between of the packed curd and this home made one.

*TASTE

*SMELL

*TEXTURE

*The way I made the Butter milk:-

1. Mixed the curd with water

2. Added a pinch of salt

3. Added chillies

4. Added asofodita

5. Added some curry leaves and then It was ready to serve.

Tharsika.K

Anjan Arun of Grade VIII B

G. Jeya Bharathi of Grade VIII B

M.S.Srinithi of Grade VIII B

Bullying

Workshop conducted by all the three wing coordinators

The new members were excited to be the part of the JPS fraternity.

First Day of School

Teachers of grades 1-5 greeted the students with warm smiles and welcoming words, signaling the start of the day, adorn with the scent of freshly sharpened pencils and new textbooks lingers in the air.

Tiny tots on their First Day

JPS welcomed the tiny tots. We believe each of you is a prince or princess in your own unique way. So put on your imaginary crowns, let your imagination soar, and let's embark on a marvelous journey together!

International Yoga Day

Yoga is the practice which can clean our mental garbage.

JPS witnessed the huge throng of participants observing the yoga day

Out Door *Learning*

"The best classroom and the richest cupboards is roofed only by the sky."In the search of the best classroom, the outdoor learning was organized on 30th June 2023 to Kaalesuwari Refinery Pvt. Ltd where our school Grade IX and XI students learnt beyond their textbooks with practical understanding .

ART & CRAFT

Anusri P of
Grade II B

Alaricecaroline of Grade VII B

Amrithavarshini of
Grade VIII B

Aakashraj's of Grade X

Aakashraj's of Grade X

Jeyashree's of Grade X

Deeshik Abhimanyu of Grade II B

Sejashree R of Grade V

Sejashree R of Grade V

The Primary & Middle grade students make sketches to exhibit their skills, talent and creativity.

Monthly Calendar

July 2023

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

Important Events

Dates

01	Parent Orientation Program
08	Tamil Nadu State Inter School Athlete Meet
15	Perunthalaivar Kamarajar Birthday
24	Periodic Assessment - I
28	Student Body Council