



Tapasya

Transition from Information to Knowledge to
Experience to Wisdom (IKEW)



A Devrukh Spiritual Prowess Pvt Ltd (DSPPL) initiative

This newsletter is specially for all students, teachers and parents.

As Ajit Telang Sir used to say that the education of a student is a social triangle. Unless, teachers and parents do not form "perfect" angle, the educational triangle can never achieve the ideal "equilateral triangle" combination.

CONTENT

FROM THE GUEST EDITOR'S PEN PAGES 03-05

CA Nikhil Kenjale - Finance professional, Music lover, poet at heart ,successful trainer, social contributor and Spiritual Seeker.

SPECIAL

NINE STEPS REACHING TO SEVEN GUARDIAN ANGELS | PAGES 06-10

Step 07: The Illusions

Dip. SAC Ashwini Telang, Mumbai
Clinical Psychologist &
Director,DSPPL

**NEW
EPISODE**

SPECIAL

SCIENCE OF LEARNING PART 16 PAGES 11-12

CA Pranjal Joshi, Pune

HONESTY ALWAYS PAYS IN LONG RUN PAGE 13-14

Our Attitude decides our Altitude
Krupa Choksi, Rajkot

LIVE LIKE A BLESSING | PAGES 15

Thought for the Month

Viivek A Pandey, Vadodara

GOOSE THAT LAID GOLDEN EGGS | PAGES 16-17

A Lesson about Patience

Finance Lesson of the Month

CA Amit Dhadphale & CA Ishan Shaligram
Pune

कथाये विनायक की... STORY 03 | PAGES 18-19

Mrunal & Yamini Kutumbale, Vadodara

UNDERSTANDING CONSTITUTION PART 6 (ARTICLE 15) | PAGES 20-22

Kalpita Rakesh, Mumbai

गुनहगार कौन ? | PAGE 23

कहानी प्रसंग 15

Saurabh Malpani, Mumbai

बड़ा घर | PAGES 24

Jayanti Katdare. Ratnagiri

INDUSTRY INSPIRATIONS | PAGES 25-28

Interview with P N Subramanyan

BIOLOGY MADE EASY | PAGE 29-30

Kinal Pandya, Ahmedabad

SCIENCE EXPERIMENT - 3 | PAGE 31

Science in Everyday Life!

Saurabh Malpani, Mumbai

ARTICLE ON PHYSICS | PAGE 32-33

Dr. Duhita Lakhatariya & Dr. Pankaj
Sharma, Lecturer Physics,
Government Polytechnic
Ahmedabad

DSPPL COMICS | PAGE 34

Komal Amol, Bengaluru

DSPPL EVENTS | PAGES 35



Ajit Telang Sir
Our Inspiration!



All art is quite useless.

— Oscar Wilde —

From the Guest Editor's Pen

“All Art is quite useless....” - Oscar Wilde



CA Nikhil Kenjale

CA Nikhil Kenjale is a seasoned financial professional with 20+ years extensive industrial experience. He is keen in exploring linkages of various art forms and their interplay with corporate behavioural and management aspects. He is the owner of Nikhil Kenjale & Co, a proprietorship firm, previously worked with Deloitte Haskins & Sells LLP. He mainly works in the areas of governance, risk and control.

In the Corporate world, one of the famous jargons is “Thinking out of the box”....means get some novel idea for solving the problem. Why to solve a problem? So that Company can get a competitive edge over the others? By getting that competitive edge, what will happen? Company’s profits will go up....shareholders values will go up. All interested stakeholders will get benefitted. Such companies are always an attraction for people to get a job. Nothing wrong in it, but is it the only goal in human life?

Parents feel our children should be very sharp and should score good marks in the exams, then join very costly coaching classes and get a degree and qualification so that they will be placed in an organization that recognizes their talent and accordingly compensate them.

Indirect rule is “education is for earning”. That is to say, so much of material is to be infused from outside to inside of the student’s brain that he produces goods marks and ranks. Especially, country like India, where it has a huge demographic dividend, smaller things multiplied by big volumes, give you BIG absolute numbers. That we can see in the education sector – fees paid for colleges, coaching classes and so on.



"All art is quite useless....."

continued...

Actually, the word "educt" comes from the Latin word "eductus," the past participle of "educere," meaning "to lead forth, draw out". Means education should be the process of taking out what that student already has within. Have we tried this with our children? Trying to get best out of his / her natural abilities. A great effort has already been made in Shantiniketan by Respected Gurudev Rabindranath Tagore, where student will choose their coveted topics by getting minimum required education for other topics.

Let us come back to our Corporate discussion. Nature is very balanced and always justified. Actions and reactions are equal and opposite. So, if somebody gains, somebody must have lost something. So, more money earning must be creating some trouble somewhere. DO REFLECT ON THIS THOUGHT.

I have a chair; it is useful for sitting. We have air freshener in the room; it is useful for having pleasant environment in the office. I just love the furniture as it serves multiple purposes like study table, dining place. If folded, it decorates the wall etc. etc. Everything in our life is surrounded by the utility value of an object, human, plant, fruits, insects, animals and so on.

Is utility, an only criteria to focus upon or to be pursued always? Perhaps, no. Oscar Wilde famously wrote "All art is quite useless" in the forward to his novel "The Picture of Dorian Gray", suggesting that art should not be didactic or inspire action, but exist purely for its own beauty and aesthetic value.

We see so many blooming flowers after the monsoon season, especially in the western ghats of India. Also, we can experience this in Valley of Flowers in Uttarakhand. When we visit these places, our inner and real soul experiences this beauty and the so called "non-utility" of these flowers, trees....entire nature. Still we feel good. WHY? REFLECT.

Do we teach our children to just experience the things? Actually, so much of planning and gathering information from social media before actually seeing it, results in contaminated experience. I still remember my first impression of the Great Himalayas. I was familiar with the Western Ghat mountains and their general elevation. So, applying that logic, I was trying to locate the peaks. But beyond the point there were clouds. So, I stopped locating the peaks

“All art is quite useless.....”

continued...

assuming it's a cloudy weather. I really got astonished when my brother in law suggested me to look little above the clouds... That was an amazing experience of seeing mountains of gigantic heights. Snow peaks were standing there above the clouds....Had I done an internet search, look at the altitudes, actual pictures etc. I would have been deprived of this experience. Again, those snow peaks, per se, have no utility value. But they do exist defining what constitutes beauty.

Earning money is important, no doubt. Through the required education in the fields where the child has natural inclination, it should be possible through some sincere efforts. However, we need to seriously think if our children are getting biological experience** from nature, piece of art, parallel to the intellectual experience. There is so much of fun in touching the brushes, colours, papers, craft material, putting your feet in cold river water, walking bare footed and so on.....Do we do this? Again REFLECT.

** Those who are interested in getting further thoughts on this, please listen to an interview of Mr. Milind Mulick, famous water colour painter from India. Link: [You Tube Interview of Milind Mulick Sir](#)

Great painter Late Ravi Paranjape in his interview on Sahyadri Channel had said that we have overflowing garbage containers on the road, because we do not teach aesthetics in the schools. Therefore, nobody cares about throwing garbage anywhere on the roads. [Link for Ravi Paranjape Sir's interview](#). It is a time to look little beyond the utility value.

Let us invest some time in USELESS things....that is in the ART, whether it is created by GOD or by humans.

Nikhil Kenjale

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Nine Steps Reaching to Seven Guardian Angels

Step 07 - The Illusions



- Dip. SAC Ashwini Telang, Clinical Psychologist & Director, DSPPL

Summary

In a realm where shadows loom and hope flickers faint, seven children, chosen by fate and divine grace, uncover gemstones of mystical might. Serendipity binds their hearts, and ancient guardians whisper secrets of the sacred steps. Through trials and tribulations, they tread the spiritual paths, each step a beacon guiding them towards paradise. Their unity, a tapestry of courage and light, weaves a tale of resilience against the encroaching dark. Will their celestial journey and newfound wisdom suffice to banish the shadows and restore the world's delicate balance?

Continued from previous edition:

Step 07 - The Illusions

They traveled to the heart of Siem Reap, where the dark figure resided. As they walked past the main market area, the air became thick with tension. They felt a similar stench in the air that they had experienced a couple of years back when they were studying the scrolls.

Amnar suddenly remembered and spoke to Preal, "Preal, can you recognize this strange stench in the air?"

Preal answered, "I kind of feel it but can't recall."

Amnar continued, "Sur-proh, 10 years back when we went to the temple and were reading our scrolls..." Before he could complete, Santep said, "Hey, I remember it now... that we had hidden our scrolls in such a way that no one would make out why we were there. But why did you recall it now?"





Nine Steps Reaching to Seven Guardian Angels Episode 07 Contd..

Preal immediately retrieved his memories of them speaking with each other and no one seemed to have noticed it. He said, "How can anyone forget that?" Taking Amnar aside, Preal whispered into his ear, "Shh... It seems only two of us had sensed it. So, we can't let them know this."

Amnar mentioned, "Sur-proh, if we don't, they won't be able to trust us and who knows, the evil man can use this information against us, separating us from the rest."

Preal thought for a moment and patted Amnar's head with affection, "You surely are so grown up. You are absolutely right. We need to tell the others about it."

Amnar caught hold of Santep and mentioned the whole incident to him. Santep seemed to be shocked for a moment and then stated, "tae anak chhkuot te? How can you keep this hidden from us for so long?" The words, "tae anak chhkuot te" literally meant "are you crazy" in their language.

When Sarlanha, Kaunosrei, and Tolyphap heard Santep saying these words, they were stunned and stopped walking, turning towards Preal with an expression that demanded he spill out what he had kept secret for so long. Preal narrated every single detail of the scenario that he could remember, and Amnar then stated, "Guys, I think that the atmosphere here resembles what we had experienced over there 10 years back. That means at that time, he had used his dark forbidden magical spell to locate our stones or probably us."

Kaunosrei said, "Saum arkoun, for telling us this now. Because I trust you both."

Sarlanha nervously asked Kaunosrei, "How can you trust them? They were hiding something from us for a decade. Something that is of immense importance to all of us."

Kaunosrei calmly replied, looking at Preal, "Uhm... probably they were trying to protect us by not telling us about that occurrence."

Santep looked at his sister Sarlanha and said, "But how can Preal protect us by not telling us about it? I don't understand. Bangosrei is right. We can't trust them."

Preal stepped in, "Wait... I'll explain why we didn't tell you about it. First of all, I thought it would be frightening for Santep and Kheul to listen to it at that time because I had seen how afraid Amnar was. Secondly, when I comforted Amnar by saying not to worry, I myself was fearful about that evil force I sensed. But none of you seemed to have heard me there. So, I took it as the divine will not to disclose it to you guys."





Nine Steps Reaching to Seven Guardian Angels Episode 07 Contd..

Sarlanha looked at Tolyphap and pronounced, “Uhm... Somto. It was us who should have realized how difficult it would have been for you to keep it hidden from us. Kaunosrei, you’re right. I think we forgive you.”

Tolyphap smiled at Sarlanha and said, “Saum arkoun for forgiving them.” He held her hands and uttered, “Always remember one thing, Sarlanha: no matter what, you have to trust each one of us. If we don’t, our whole purpose of being the chosen ones would collapse in no time.” Sarlanha promised not to mistrust anyone anymore.

Finally, they approached the ancient fortress where Temnyy Iskatel awaited them. He had created illusions to destroy their unity. Before entering the fortress, each one could see others ditching him or her. Seeing this, Sarlanha and Kaunosrei were very disturbed and stressed out. They kept saying to themselves, “This is not true. We are and shall always be together.” They were desperately trying their best to calm themselves down. Kaunosrei remembered what the monk had told her during training. She thought to herself, “I think I know what to do. My strength is emotions. Yes! I’ve got this.” She took a deep breath and ignited the emotional balance in her. Sarlanha invoked her strength of emotional healing with unconditional love towards the universe as she muttered four golden healing words that were taught by the monk: “I am sorry, please forgive me, I love you, and I thank you.”

At that very moment, Tolyphap entered the premises and the tiger’s eye stone within him sensed that it was an illusion. Spontaneously, his body emitted balancing energies and countered these illusions all at once. While all this was happening, Amnar used his power of manifesting positivity. Preal, Santep, and Kheul were just behind them, awaiting as per their plan. They were the backups to execute the plan. But the situation was easily managed by only four of them, so after the first phase of the war was over, they joined Amnar, Sarlanha, Kaunosrei, and Tolyphap while entering the fortress. They were together, holding each other’s hands to let Temnyy Iskatel know that his illusions did not break them apart.

Inside the fortress, Temnyy Iskatel sat on a throne made of dark stone, his eyes glowing with malevolent intent. “This can’t be! I created illusions to break their unity. How can they destroy those that easily?” muttered Iskatel to himself, looking at the crystal ball. Temnyy Iskatel cast another spell and filled his staff with various powers of the trapped souls. He had trapped many innocent kids and taken away their souls, which he had kept in his crystal ball.






Nine Steps Reaching to Seven Guardian Angels Episode 07 Contd..

With sarcasm, he spoke in his hoarse, husky voice, “So, the chosen ones have finally come.” He sneered as he added, “You think you can stop me? Uhm? You are mere children playing with powers that you do not even understand. So let me spare your lives on only one condition.” Kaunosrei asked curiously, “What condition? Are you thinking we’re that easy to handle?”

Temnyy Iskatel reacted to her question, “Well... Well... Well... the condition is that you’ll need to give me those stones. You children are too young to handle them, and it would be advisable if someone like me has them all.”

Santep stepped forward, clearing his throat, and uttered, “Firstly, we are not children anymore. Secondly, which stones? What are you talking about?”

Those questions made Temnyy Iskatel angry, “Do you think you can fool me? I know you all have gemstones that have the power to bend the world at will.”

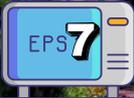
Sarlanha came forth, “Mr. Iskatel, we really don’t have stones with us.”

Tolyphap moved ahead, shielding Sarlanha, and said, “Look man! None of us have stones with us. You can even ask your people to screen us if you don’t believe us. By the way, you should know that almost everyone in this world is looking for power outside just like you. Yet none felt satisfied even after that. In fact, they craved more of it. Have you ever wondered why?”

Temnyy Iskatel was confused as he had not expected children to ask any questions like these. Yet in his hoarse, husky voice, Temnyy Iskatel queried, “So are you trying to say that the prophecy was a hoax? Or,” sniggering, “...are you afraid to face me?”

Preal gave him a strong response from behind, “We are not afraid, you fool! We are giving you a last chance to rectify your mistakes.”




Nine Steps Reaching to Seven Guardian Angels Episode 07 Contd..

Temny Iskatel disgustedly replied, “YOU are giving ME a chance? Unbelievable!” Subconsciously, Preal continued, “Do you know where the power on earth comes from? I mean, all those minerals, gemstones—where do they come from?”

Temny Iskatel answered him as if mesmerized, “Of course, in the core of the earth. The power is in the core of the earth, and that’s why I need those stones from you.”

Preal added, “Right. But before that, tell me, where can we find the power in an atom? Is it the electron, proton, or neutron?”

Temny Iskatel calculatedly replied, “As far as the atom is concerned, I think it’s the nuclear power station. So, it must be the nucleus. So, I don’t know whether it’s the proton or neutron.” Suddenly coming back to his senses, he shouted, “But why are you suddenly bringing science here?”

Before Preal could answer, Amnar continued, “Well, let me tell you, the power is in the neutron, just like the power is in the core of the earth. Our point here is that we are neither as small as an atom nor as big as the earth. So, do you think we need those stones to protect this world? We ourselves are enough for that.”

This made Temny Iskatel enraged.



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Science of Learning Part 16

- ca pranjal joshi

Mastering Exam Preparation

The Power of Practice over Perceived Understanding

Sushma is preparing for her CA final examinations. She has completed her syllabus and begun revising it. Her teacher advised her that it's time to start solving question papers under exam-like conditions to assess her preparedness. Determined to follow this advice, she decided to attempt a CA Final Accountancy paper at home the coming Sunday.

The Exam Attempt and the Emotional Struggle –

On Sunday, she randomly selected a question paper, set her timer, and started solving it under strict exam conditions. The initial questions went smoothly, and her confidence grew. However, as she attempted the next numerical question, things changed. Though she had studied the concept, she struggled to recall the exact sequence of steps needed to solve it.

Five minutes passed, then a few more, and frustration set in. She knew that a quick glance at her class notes would reveal the missing step, but doing so would break her commitment to simulating an exam scenario. The temptation grew stronger. Eventually, she gave in, opened her class notes, and found the missing step. Relieved, she reassured herself, “Oh, that was the step I was missing.”

However, a new conflict arose. She had violated the exam conditions, making the rest of the attempt seem pointless. Doubt and frustration took over. Should she continue? Was the exercise still meaningful? The motivation faded, and she decided to stop the exam entirely. Instead, she took a break and shifted her focus to another subject.

The Illusion of Understanding

The key issue here was not that Sushma referred to her notes—that's a natural and sometimes necessary step in learning. The real problem was her false sense of understanding. By merely reading the answer, she felt as though she had grasped the concept. But in reality, she had not internalized the solution. This is a common cognitive trap: reading an answer gives the illusion of understanding, but true comprehension is only confirmed through application.



PRACTICE

Science of Learning Part 16

..CONTINUED

A Proven Approach to Deep Learning

Based on two decades of experience teaching MBA and CA students, we have found a simple yet effective solution -

1. **Referring to notes is fine, but it's not the end.** Recognize that reading an answer does not equate to understanding.
2. **Allow time to pass.** Give your brain a break and revisit the question after a few days.
3. **Attempt the same question under exam conditions again.** If you can solve it without referring to your notes, you've truly understood it.
4. **Reinforce the concept with similar questions.** This solidifies your grasp on the subject.

The Science Behind Retention

Research in neuroscience highlights that active learning—applying concepts rather than passively reading—enhances memory retention. The hippocampus, responsible for processing and storing information, functions optimally when learning is reinforced through practical application. Additionally, studies suggest that focusing on a concept for at least 20 minutes helps embed it into long-term memory.

Final Takeaway

Next time you struggle with a question, don't hesitate to check your notes—but don't stop there. To truly master a concept, revisit and solve the question again after some time. This method will not only test your understanding but also strengthen your long-term retention. The key to success in exams isn't just knowing the answer—it's proving that you can apply it properly when it matters the most.

CA Pranjal Joshi, Pune

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Our Attitude decides our Altitude Honesty always pays in long run..... -Krupa Choksi

Honesty is one of the biggest virtue which one should have. But today we see world around, people do lot of corruption, malpractices and favouritism that people have lost belief in value system. People feel that we will be robbed by others if we are honest. In today's world, a man of Principle will always suffer. One has to be smart to survive in this competitive world.

But this type of thinking is only of a common people. An elevated soul should always think about the values as our core qualities. The values in life builds our character and a person of good character can succeed everywhere. We should always look at the long term benefit. If in a job, sitting in the office, playing games and then claiming overtime is a smart act. One may gain in short time but eventually, when it is examined, the person will lose the job or may be reprimanded. Each deed has its repercussions. And if a person is lowly paid but is honest in his work, then he may be given an important task as he is trustworthy and thus his salary will also get a hike.

Honesty connects us to our Soul consciousness and invokes our divinity. It builds a strong character. **Recently I came across a beautiful story on honesty which I would like to share with all of you.**

The Nobel Laureate Prof. C. V. Raman after retirement wished to open a Research Institute in Bangalore. So he gave advertisement in the newspapers for recruitment of three scientists. Lots of eager Scientists applied thinking that even if they were not selected, they would at least get an opportunity to meet the Nobel Laureate.



In the preliminary selection, five candidates were selected and the final interview was to be taken by Prof. C V Raman himself.

Three were selected out of the five.

Next day Prof. Raman was taking a walk and found one young man waiting to meet him. He realized that it was the same man who was not selected. The Prof. asked him what was the problem and he replied that there was no problem at all, but after finishing the

Our Attitude decides our Altitude

Honesty always pays in long run..... ***Continued...***

interview the office had paid him ₹7 extra as compared to his claim and he wanted to return it. But because the accounts had closed, they could not take back the amount and asked him to enjoy it.

As the man was insistent that it was not right for him to accept the money which did not belong to him, Prof. Raman took the money from him himself.

After going few steps forward the Prof. looked back and asked the young man to meet him the next day at 10.30 am. The man was very happy that he would get an opportunity to meet the great man again.



When he met the Prof. next day the Nobel Laureate told the young man “Son, you failed in the Physics test but you have passed the Honesty test.

So I have created another post for you”. The young man was surprised but very happy to join. He has written a book on how the seven rupees changed his life.

Later on he too became a Nobel Laureate in 1983. This young man was *Prof. Subrahmanyan Chandrashekar (US Citizen of Indian Origin)

We all know that story of honest wood cutter but we think that story could be imaginary. But the above story is real one. We need to have faith in the divine. In difficult situations also we should not give up our values but should stand still and the dark clouds will vanish and bright sunlight will emerge in your life with a rainbow and make your life beautiful.

So be honest, leave the rest and divine will give you the best.....

Krupa Choksi, Rajkot

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 Authored books like Holistic Parenting & Personality Development for modern Youth, jointly with Ms. Ashwini Telang





Thought for the Month

Live like a Blessing

- Viivek A Pandey

Dear students of DSPPL and my young friends,
Live like a blessing...

Bodies young and old once arrive,
Need to struggle, strive, and thrive.
Nobody told them how life for all happened,
Minds uplifted or emotions dampened.
The journey of life was never foretold,
Prophecies came from both meek and bold.

One chooses to live the way one wants,
To keep moving and gather knowledge that flaunts.
Have life as a burden and lay your back,
Against the walls, heavy weights, and no track.
Or have the fun of rescuing people from trouble,
Helping may be the way out of this cosmic bubble.

One can also adorn the form of a lion,
A fierce man fighting for his success and scion.
Or know the art of choosing a size so small,
That one appears none but encompasses all.
To adorn the role of a person who provides rectitude,
Mistakes of the past that need healing with gratitude.

The option of declaring one as a divine statesman,
Stands open for the one with wisdom and playfulness.
The intellect combined with compassion and enlightenment,
Piercing eyes of love by just observing and bringing amendment.
This rare gift of life received to experience the wholeness,
One chooses to live whatever the way, but with a lot of goodness.



Viivek A Pandey, Vadodara

Viivek A Pandey is an educator and an author. He has been actively involved with most philanthropic activities initiated by Ajit Sir Guruji. Over the years he has contributed many articles and poems. He envisions to see the world walking towards the path of enlightenment.



The Goose That Laid Golden Eggs



Image Credit



Finance Lesson of the Month

A Lesson in Patience

- CA Amit Dhadphale and CA Ishan Shaligram

Once upon a time, there was a farmer who had a magical goose. Every day, the goose laid a golden egg, and the farmer became very rich. But the farmer grew greedy and impatient. He wanted all the golden eggs at once, so he decided to cut the goose open. To his dismay, he found no eggs inside, and he lost his magical goose forever.

Financial Learnings

a) Avoid Greed: Greed can lead to poor financial decisions. The farmer's greed made him lose his source of wealth. In finance, this happens when people take unnecessary risks for quick gains, which can lead to big losses.

b) Patience is Important: Patience is crucial in financial planning. Investments, like the goose's golden eggs, often take time to grow. Rushing to get quick returns can result in losses.

c) Value Long-Term Gains: Long-term investments, like retirement funds or education savings plans, can provide big benefits over time. The farmer didn't appreciate the steady, long-term gains from the goose's daily eggs.

How Can We Implement These in Our Life

a) Avoid Greed:

- **Diversify Investments:** Don't put all your money into one investment. Diversification can help manage risk and avoid the pitfalls of greed.
- **Risk Management:** Understand the concept of risk and reward. Make informed decisions rather than chasing high-risk, high-reward opportunities without understanding the potential downsides.



continued...Image
Credit**b) Practice Patience:**

- **Long-Term Savings Accounts:** Open long-term savings accounts, like a fixed deposit or a child savings plan, where children can see their money grow over time.
- **Think Long-Term:** Retirement Savings: Save for retirement from an early age. A retirement fund that grows over decades shows the benefits of long-term planning.
- **Education Funds:** Save for future education expenses. Regular contributions to an education savings plan can accumulate over time to cover college costs.

c) Avoid Impulsive Decisions:

- **Budgeting:** Teach children to create and stick to a budget. This helps them understand the importance of planning and avoiding impulsive purchases.
- **Emergency Fund:** Encourage children to set aside a portion of their savings for emergencies. This teaches them the value of being prepared and not making hasty financial decisions in times of need.

Conclusion

The story of "The Goose That Laid the Golden Eggs" teaches us valuable lessons about patience, avoiding greed, and appreciating long-term gains. By understanding these financial principles, we can make better decisions and build a secure future. Remember, just like the farmer should have valued his magical goose, we should value our savings and investments, nurturing them patiently over time.

Interactive Activity

What would you do if you had a magical goose? Draw a picture or write a short story about how you would take care of it and what you would do with the golden eggs. Share your creations with us! Email us at info.dsppl@gmail.com

Happy Reading, Happy Learning!**CA Amit Dhadphale and CA Ishan Shaligram****PS: Views are personal!**



DSPPL



कथाये विनायक की..

= *Mrunal & Yamini
Kutumbale*

आप सब को श्रीकृष्ण के चरित्र में विश्वरूप दर्शन का उल्लेख पता है। आज हम श्रीगणपति की एक ऐसी कथा देखेंगे जहाँ श्री गणपति ने विश्वरूप दर्शन कराया।

महर्षि कश्यप के आश्रम में एक दिन हाहा, हूहू और तुम्बरू नामक गंधर्व पधारे। मस्तक पर चन्दन तिलक, पीताम्बर धारण किये हुए हाथ में वीणा लेकर हरिकीर्तन में वो मग्न थे। कैलास दर्शन करने के बाद कश्यप ऋषि के आश्रम आये थे। महर्षि कश्यप ने उनका यथोचित स्वागत किया। तीनों ने नित्यकर्म के बाद माँ भगवती, शिव, विष्णु, विनायक और भास्कर का पूजन किया और अपने इष्टदेव का ध्यान कर रहे थे। तभी महोत्कट खेलते खेलते वहा आ पहुंचे। उस बालक ने पांच भगवान की मुर्तिया देखी तो उनको उठाकर दूर फेक दिया और वहा से चल दिए।

ध्यानपूर्ण होने पर गंधर्वों ने देखा की वहा उनकी मुर्तिया नहीं है तो वे बेचैन हो गए। इधर उधर ढूँढना शुरू किया। मुर्तिया न मिलने पर उन्होंने ऋषि कश्यप से कहा , "महर्षि , हम उमा , शिव, विष्णु, विनायक और भास्कर की पूजा करके ध्यान कर रहे थे पर अचानक पांचो मुर्तिया अदृश्य हो गयी। ये कैसा योग है ?"

महर्षि को आश्चर्य हुआ । इस आश्रम से अब तक कुछ भी सामान चोरी नहीं हुआ । फिर मुर्तिया अदृश्य कैसे हुई? उन्होंने महोत्कट को बुलाकर पूछा कही उसने खेल खेलमें मुर्तिया कही रख तो नहीं दी। महोत्कट नेस्पष्ट रूप से कहा की उसने मुर्तिया नहीं देखी।

महर्षिने कठोर होकर पूछा , " तुम्हारे अतिरिक्त यहाँ कोई नहीं आया। तुमने ही खिलौने समझकर मुर्तिया उठायी होगी। " तब महोत्कट ने बड़े भोलेपन से कहा मैंने प्रतिमाये नहीं उठायी। " तब महर्षि ने पुत्र को डराने के लिए हाथ में छड़ी ली और उसे दिखाते हुए कहा , " अब बोलो, तुमने मुर्तिया कहा फेक दी ? नहीं बताओगे तो दंड मिलेगा। " महर्षि की कठोर मुद्रा देख माता अदिति भी वहा आ गई। तभी महोत्कट बोले , " मैंने मुर्तिया कही फेक दी होती तो यही कही मिल जाती। अगर आपको लगता है की मैंने मुर्तिया खा ली है तो मेरा मुख देख लीजिये। " यह कहकर पुत्रने मुख खोल दिया। भीतर का दृश्य देखकर माता आदिती मूर्छित हो गयी। और अन्य सभी भौचक्के रहगए। सबने महोत्कट के मुख में कैलास सहित भगवान् शंकर, वैकुण्ठनाथ , सत्यलोक, स्वर्गलोक समस्त पृथ्वी , चौदह भुवन , दशोदिशाओ समेत अद्भुत विश्वदर्शन किया।





continued...

महर्षि कश्यप सोचने लगे " अरे, मैं तो भूल ही गया था की मेरे पुत्र के रूप में साक्षात जगदीश्वर गणेश अवतीर्ण हुए है। मैंने इन्हे छड़ी दिखाकर बड़ा अपराध कर डाला।" उन्होंने गंधर्वों से कहा , बालक को दंड देना मेरे वश की बात नहीं।आप बताइये मैं क्या करू ? " गन्धर्वों ने कहा "जबतक मुर्तिया नहीं मिलती हम आपके यहाँ भोजन ग्रहण नहीं कर सकते। "

महर्षि देख रहे थे की गन्धर्व बहुत दुखी हो रहे है। पर महर्षि के वश में कुछ नहीं था। इतने में महोत्कट वहा आ कर खड़े हो गए। वे कभी माता पार्वती , कभी विनायक तो कभी सूर्यके रूप में दिखाई दे रहे थे। सभी को आश्चर्य लग रहा था। हर क्षण वो बालक एक अलग रूपमें दर्शन दे रहे थे। कभी विश्वरूप तो कभी विनायक तत्व तो कभी अत्यंत भयंकर रूप। इसचमत्कार के बाद गंधर्वों को महोत्कट के रूप में साक्षात परमात्मा ही बसे है इसका साक्षात्कार हो गया। तब महर्षि को धन्यवाद दे कर उनके घर भोजन कर के महोत्कट को प्रणाम कर अपने स्थान की और प्रस्थान कर दिया।

जय गुरुदेव



Mrunal Kutumbale, Vadodara

A Commerce Graduate and Reiki healer from Reiki Vidya Niketan, Mrunal has contributed insightful articles to ReikiBrahma magazine and translated them into Gujarati and Hindi. A nature lover who enjoys reading and music.

Yamini Kutumbale, Vadodara

She is a Senior Test Analyst at Civica with 6 years of experience, She specializes in software testing and quality assurance. A Computer Engineering graduate, she is passionate about delivering product excellence. Yamini's love for reading, writing, and traveling reflects her vibrant personality and dedication to growth.





CONSTITUTION OF INDIA

- **Kalpita Rakesh**

“The Question on the Form” (Article 15 - Equality)

Characters:

1. **Aryan:** A curious and kind-hearted 10-year-old boy.
2. **Ravi:** Aryan’s friend and the son of their housemaid.
3. **Mom:** Aryan’s mother, knowledgeable and patient.
4. **Dad:** Aryan’s father, wise and thoughtful.

[Aryan is sitting with Ravi at his desk, helping him fill out a school admission form.]

Aryan: (Reading aloud) Name... done. Date of birth... done. Parent’s occupation... done.

Ravi: (Excitedly) Thank you, Aryan! I never thought I’d get to join the same school as you!

Aryan: (Smiling) Of course, Ravi. We’ll have so much fun together. (Pauses) Wait... (pointing at the form) What’s this? Caste?

Ravi: (Shrugs) I don’t know. What’s a caste?

Aryan: (Scratching his head) I have no idea. Let’s ask Mom and Dad.

[Aryan and Ravi rush to find Aryan’s parents sitting on the sofa, sipping tea.]

Aryan: Mom, Dad, what’s a caste? And why does it matter for a school form?

Mom: (Exchanges a glance with Dad) That’s an important question, Aryan. Let’s explain.

[Aryan and Ravi sit down, curious.]

Mom: A long time ago, the commuting was not that easy. To ensure every village become self sufficient, everyone mastered different skill e.g- pottery, cooking, trading, teaching, etc. It continued for many generations and the children born in respective families mastered the skills of their forefathers. Unfortunately, at some point of time, this skill was made as compulsory and that gave birth to "caste". Children from respective families were prohibited to pursue other skills.

Ravi: (Shocked) That’s so unfair!

Aryan: (Frowning) But why?



Understanding Constitution Part 6 (Article 15)

Mom: It was just how society worked back then, Aryan. Invaders into India exploited and aggravated this situation further. But it wasn't right. This kind of unfairness kept many people from going to school, getting jobs, or living a good life.

Dad: When India became independent, our leaders knew this had to change. They wrote the Constitution, which is like a big rulebook for the country. One of the most important rules is Article 15.

Aryan: What does it say?

Mom: It says that no one can be treated unfairly because of their caste, religion, gender, or birthplace. It's like saying, "We're all equal."

Aryan: But if we're all equal, why is caste still on the form?

Mom: That's a great question, Aryan. You see, for a long time, certain communities didn't get the same opportunities because of discrimination

Dad: To make things fair, the Constitution allows reservations for those communities in schools, colleges, and jobs. It's like giving everyone the same starting line in a race.

Ravi: (Thoughtfully) So, that's why they ask about caste on forms?

Dad: Yes, Ravi. It helps ensure everyone gets a fair chance.

Mom: (Sits down with Aryan and Ravi, speaking gently) You see, kids, our country has come a long way since the days when caste and religion divided people. Today, especially in big cities like ours, those barriers are much weaker.

Aryan: (Curiously) How so, Mom?

Mom: In metro cities, people from all kinds of backgrounds—different castes, religions, and even regions—live and work together. Look at our apartment building! Can you tell which neighbor belongs to which caste?

Aryan: (Thinking) No, I guess not.

Mom: Exactly! Most of us don't even think about it anymore. In offices, schools, and public places, people focus on who you are as a person—your skills, kindness, and talent—not your caste or religion.

Ravi: (Smiling) Like how Aryan and I are friends?

Mom: That's right, Ravi! In schools here, kids sit next to each other, play together, and share their lunchboxes without worrying about such things.



Understanding Constitution Part 6 (Article 15)

Aryan: But what about grown-ups?

Mom: It's the same, Aryan. In workplaces, people are hired based on their qualifications and how well they can do the job. Discussions about caste or religion don't even come up. And on public transport like buses and metros, everyone sits together. No one asks, "What's your caste?"

Ravi: (Curious) So, does that mean there's no discrimination now?

Mom: (Pauses) In big cities, it's much, much less. Sure, a few people might still have old-fashioned ideas, but most of us have moved past it. Especially your generation—you're growing up in a world where these differences don't matter anymore.

Aryan: (Smiling) That's great to hear!

Mom: (Nods) Yes, it is. We've made progress because our Constitution teaches us that everyone is equal. That's why people from different backgrounds now work, study, and live together in harmony.

Ravi: (Thoughtfully) So, cities like ours are showing how life can be better when we don't worry about caste or religion?

Mom: Exactly, Ravi. It's a wonderful example of how India is evolving. And I hope someday, it will be the same everywhere—not just in cities but in every corner of our country.

Aryan: And I'm glad we live in a country that believes in equality. Let's finish this form so you can join my school!

Kalpita Rakesh Vazhayil, Mumbai

A postgraduate in Inorganic Chemistry from Wilson College, has also completed a Postgraduate Diploma in Materials Management from IIMM and a Certificate Course in Foreign Trade. With over a decade of experience in logistics, her latest venture is Samruddhi Niryat, which aims at promoting health and sustainability through millets. A theater enthusiast who thrives on exploring and learning new fields.



गुनहगार कौन ?

- Saurabh Malpani

एक राजा ने अलग-अलग गाँवों से बहुत सारे ब्राह्मणों को भोजन के लिए आमंत्रित किया। जब भोजन बनाने वाले रसोइया खुले आसमान के नीचे भोजन बना रहे थे उस समय आसमान में चील एक साँप को पकड़कर ले जा रहा था और तब साँप के मुँह से ज़हरीली बूँदें खाने में गिर जाती हैं। उस दिन जो भी ब्राह्मण भोजन करने आए थे वे सभी खाना खाने के बाद मर गए। चित्रगुप्त यमराज से कहते हैं कि यह बहुत बड़ा पाप है और यह पाप किसके द्वारा हुआ है ? उसे हम कठोर से कठोर सज़ा देंगे। यमराज बहुत ही विचार करते हैं फिर कहते हैं कि भोजन बनाने वाले रसोइये का इसमें कोई दोष नहीं है क्योंकि उन्हें यह पता भी नहीं चला की कब ज़हरीली बूँदें खाने में गिरी।

और इसी मतभेद के चलते चित्रगुप्त यमराज को दोषी को पकड़कर लाने का आदेश देते हैं। यमराज के लिए दोषी को ढूँढना अनिवार्य हो जाता है। यमराज की नज़र एक गाँव की महिला पर पड़ती है जो पूरे गाँव में ढिंढोरा पीटती है कि राजा ने खाने में ज़हर मिलाया और सभी ब्राह्मणों को मृत्युदंड दे दिया। यमराज तुरंत निर्णय लेते हैं कि यह पाप की सबसे बड़ी भागीदारी है! चित्रगुप्त यमराज को कारण पूछते हैं कि आप इसे क्यों पाप का भागीदारी बना रहे हैं? यमराज कहते हैं की साँप, चील, रसोइए यह तीनों को पता भी नहीं था कि उनसे यह पाप कब हुआ और न ही आनंदित हुए किंतु यह महिला निंदा कर बहुत ही आनंदित हो रही थी जो सबसे बड़ा पाप कर्म है। ऐसे में इस अनजाने पाप का पूरा दोष इस महिला को जाता है जिसने जानबूझकर मन में ईर्ष्या का भाव रखते हुए निंदा की। निंदा दुनिया के सबसे बड़े पापकर्म में आता है। इसलिए जीवन में अच्छे कर्म का घड़ा भरना है तो निंदा और ईर्ष्या से दूर ही रहिए। इसलिए मैं चाहता हूँ की अनजाने में घड़े इस पाप का दंड उस महिला को ही मिले।

Saurabh Malpani, Mumbai

Graduate in Chemical Engineering with numerous curricular & extracurricular accolades and a couple of papers published in international journals. Passionate about teaching with an experience of 10 years in teaching Chemistry to JEE & NEET aspirants. Enjoys indulging in spiritual activities, football, chess, volleyball, reading and singing.



बड़ा घर - जयंती काटदरे

एक बड़े संत अपने शिष्यों को लेकर किसी काम शहर आए थे। यह बात समझते ही उनके शहर के जो भक्त थे वह संत के दर्शन के लिये आ पहुँचे, उन्होंने संत से प्रार्थना की कि वह उनके ही घर ठहरे। संत ने कहा, "देखो भाई मैं तो अकेला नहीं हूँ और मेरी दिनचर्या भी तो आम आदमीयों से अलग होती है, आपके घरमें उतनी जगह शायद न हो। अच्छा यही होगा कि मैं किसी ऐसी ही जगह पर रहूँ कि आपको कोई तकलीफ न हो। पर कुछ भक्त तो मानने को ही तैयार नहीं थे। तो संत ने कहा, "मैं इतने सारे घरों में तो नहीं रह सकता हूँ, ऐसा करते हैं की तो मेरे दो शिष्य आपका घर देखने के लिए आएं और फिर मैं ठहरने की जगह निश्चित करूँगा।

दूसरे ही दिन शिष्यों ने घर देखें और संत को अपना निर्णय बताया। जब संत के भक्त उन्हें फिर से पूछने आए तो संत ने कहा, "भाइयों यह धर्मशाला ही हमारे लिये अच्छी है। मैं तो यही रहना चाहता हूँ। उनके भक्तों को तो अचरज हुआ। उन्होंने पूछा, "हमारे अच्छे और बड़े-बड़े घरों से यह धर्मशाला ही आपको क्यों पसंद है? संत ने जवाब देते हुए कहा, "देखो भाई कड़वा है पर सच है। घर-घर में कारण अलग हुए पर परिणाम एक ही हुआ। मेरे शिष्यों ने जब आपके घर का निरीक्षण किया तो कुछ बातें समझमें आ गईं।

किसी एक घर में मेरे शिष्यों से तो अच्छा बर्ताव हुआ पर कुटुंब के सदस्यों की आपस में ज्यादा बनती नहीं। दूसरे एक घर में लोग इतने बिजी थे, व्यस्त थे कि एक भक्त को छोड़कर बाकी लोगों को अपने रूम से बाहर आने को भी ज्यादा फुर्सत नहीं मिली। कहीं घरों में तो बाहर आए हुए आदमी से बात करते वक्त दरवाजा भी पूरा खोलने की जरूरत नहीं लगी। उनकी बात तो झरोखे से ही हुई। तो कुछ घरों में ऐसे लगा कि खाना तो बहुत ही नाप कर बनाया जाता है। बहुत कम घरों में बुजुर्ग लोग और उनके बच्चे साथ में रह रहे हैं।

तो बताइए ऐसे घरों में मैं कैसे रह सकता हूँ? ऐसे घरों में मुझे और मेरे शिष्यों को उतनी ही जगह ही नहीं बची है। आपके घर बड़े जरूर है पर अगर आप मुझे पूछोगे तो घर का बड़ा पन वहां रहने वाले लोगों के मन पर और भाव पर निर्भर करता है। यह धर्मशाला बहुत बड़ी है, आप सब जब भी चाहो यहाँ आ सकते हो।



Industry Inspirations

Interview with P.N Subramanian

A Journey of Entrepreneurship, Social Impact, and Personal Growth

DSPPL has started this new initiative of taking interviews of people who have had an illustrious career path. The aim of this is to give our young readers a direct knowledge of the different career paths available in India and also give them a firsthand experiences and learnings of the person. The ultimate success is always when you have the right attitude in life. Youth can learn and grow with the experiences of the seniors and also take the choices with a complete understanding in the future.

Q Can you tell us about your early years and the influences that shaped you?

I was the youngest of eight children, with a father who was a school teacher in a renowned government high school in Chennai, established during British rule. He was not a strict teacher, allowing me some freedom. From a young age, I was encouraged to experiment with different things, though there were always restrictions to ensure my well-being. I had two elder brothers—one a senior government official and the other a chemical engineer. Their guidance, expertise, and mentorship shaped much of my approach to life and career. My father taught me valuable lessons about ethical living, honesty, and respect for nature.

Q How did your educational journey impact your career?

I attended NIT Trichy, pursuing Mechanical Engineering. I wasn't the top student, but I was among the top 20% of my class. I always believed that theoretical knowledge needed to be complemented by practical experience. To better understand industry practices, I visited various companies and learned about equipment maintenance, which proved vital in landing jobs before graduation. I was selected by prominent companies like Indian Organic Chemicals, Kirloskar Brothers, and Tata Excavators, thanks to my blend of theoretical and practical knowledge.

Q I can understand that theory with practical application has helped your journey. You mentioned entrepreneurial instincts early on. Can you share some of those early ventures?

From school, I had a knack for business. I would pluck papayas from our tree and sell them to a local vendor, and during Diwali, I sold crackers, even demonstrating them before selling. I also worked for the Indian Market Research Bureau (IMRB) during my college years, using the earnings to buy books and notebooks. These early experiences taught me the value of entrepreneurship.



Industry Inspirations

continued

I also participated in a design competition where I won a Consolation Prize for improving a bullock cart design.

I was the first marketing person in JCB to launch their earthmoving equipment. It was an exciting time where I was responsible for concept selling, promoting plant hiring models, and recruiting a team at a young age. I learned a lot about the importance of creating relationships with resellers and partners. My boss often humorously referred to us as "First Class Broke," since, although we traveled in first class and had all expenses paid, our personal bank accounts were far from overflowing.

In 1992, I ventured into the tech industry by setting up a software company in Atlanta and Chennai with my batchmates and juniors from XLRI, despite being based in Dubai. This was my first real taste of entrepreneurship. Although the venture didn't succeed, it was a valuable learning experience that taught me the importance of perseverance.

Later, I worked in renewable energy, bringing solar thermal technology from the US to India, and in manufacturing thermally coated sensitive paper. In 2000, I successfully sold my 35-person web development company to a NASDAQ-listed company. However, due to internal issues at the parent company, I chose to exit the business, guided by my father's ethics.

Q What were some of the major challenges and pain points you faced throughout your professional journey?

- One of the earliest and most significant challenges came during my first venture into entrepreneurship in the software industry. We acquired technology from Australia and started working on industrial land for development. However, issues with technology transfers and the unwillingness of our collaborators to honor agreements led to a significant setback. The experience was demotivating but it also strengthened my resolve to succeed in business, teaching me the importance of due diligence and strategic partnerships.
- In my corporate journey, particularly with JCB and later with the NASDAQ-listed company, I often felt disconnected from the underlying corporate culture. As I was climbing the ranks, I realized that there was a lot of pressure to succeed financially, yet at the same time, the reality of being "First Class Broke" created a constant feeling of disillusionment. Balancing professional success with financial security became a difficult aspect of my career. While I was involved in building teams and growing businesses, there was always a disconnect when it came to personal financial stability. It led me to question the pursuit of wealth at the cost of personal well-being.



Industry Inspirations

continued

- Throughout my entrepreneurial ventures, managing people was both a joy and a challenge. I felt deeply committed to the success of the 35 employees when I sold my web development company to a US-listed entity. Even though I had the option to abandon them, I chose to ensure their continued growth and opportunity. At times, it felt like I was shouldering the responsibility of not just my own future but theirs as well. This sense of responsibility was burdensome, but it also taught me the importance of empowering my team, ensuring their growth, and providing opportunities for them to succeed on their own terms.
- Another key challenge was the joint venture with a Sri Lankan company for mid-sized ERP systems. Despite the initial promise, cultural differences and the misalignment of business goals between India and Sri Lanka created immense hurdles. Ultimately, we had to close the venture, which was both financially and emotionally taxing. It highlighted the importance of understanding the cultural nuances and operational dynamics when entering international partnerships.
- When I started experimenting with agriculture, especially on the terrace of my home, the challenges were multifaceted. Initially, the need for chemicals and pesticides to grow healthy crops frustrated me, as it went against my personal belief in natural, organic farming. Overcoming this challenge led me to research and embrace natural farming practices, but the transition wasn't easy. The learning curve was steep, and there were moments of discouragement when the results didn't meet my expectations.
- Another major pain point came during the exit from the NASDAQ-listed company after the insider trading scandal. While I was offered funding to propose new projects, I declined, not feeling ready with a strong proposal. The experience made me more cautious in how I handled exits from ventures. Not being financially motivated but guided by ethics, it became crucial for me to stay grounded and aligned with my principles, even when financial opportunities arose.
- On a more personal level, my philosophical journey was often at odds with the demands of the professional world. The balance between the fast-paced, profit-driven corporate environment and my commitment to nature-based living, spirituality, and social responsibility was frequently challenging. At times, I felt torn between pursuing financial success and adhering to my values of ethical responsibility, environmental consciousness, and the well-being of others.





Industry Inspirations

continued

Q It's indeed an enterprising journey with lots of learnings at various stages of your career. What role has social impact played in your career?

Social responsibility has always been a key part of my journey. I became involved in a trust founded by my brother, Manava Seva Dharma Samvardhini, which focuses on social entrepreneurship, training, and fellowships. His philosophy of contributing through "Talent, Time, Treasure, and Touch" deeply resonated with me. Eight years ago, I took over as Managing Trustee of the trust, and the experience has been both challenging and enriching.

Q "Talent, Time, Treasure, and Touch" - It's an inspiring & thought provoking philosophy which you have imbibed from your brother. I am sure we readers will put this in to practice. What drew you to agriculture, and how did it influence your philosophy?

Although my father was a school teacher, I was exposed to agriculture through him—visiting paddy farms and learning about sustainable practices. Later, as I approached retirement, I felt a strong urge to delve into agriculture. Initially, I experimented with terrace gardening and, when I faced challenges, I delved into natural and organic farming methods. This journey sparked my passion for regenerative farming, which led me to create farmhouses based on the "Reduce, Reuse, Recycle" principle.

As I researched regenerative farming and the issues surrounding climate change and food scarcity, I developed a philosophy rooted in environmental consciousness. Our ancestors gave us a pristine land, but modern generations, including my own, have misused natural resources. The green revolution in the 50s, while saving us from famine, also led to the widespread use of harmful pesticides, herbicides, and fertilizers. I believe it's crucial to acknowledge these mistakes and strive for a more sustainable future.

Q It's interesting to know your passion for organic farming and be a torch bearer for future generations. Do you pursue any spiritual practice and how it has helped in career?

About 20 years ago, I trained in Reiki, which had a profound impact on my connection to nature. Guruji taught us to speak with trees, hug them, and send them love. While it initially felt odd, I began to feel a therapeutic and healing effect, both mentally and physically. This practice reinforced my belief in the power of nature-based living. Additionally, Guruji introduced me to Agnihotra, a Vedic ritual that promotes environmental well-being. Though I couldn't implement it on my farms, I have used the ash from the ritual for various agricultural benefits.



DSPPL

Biology

Made Easy

- Kinal Pandya

We've learnt that plants require sunlight for their growth. Have you ever wondered how important is sunlight for plants? Do they really bend towards light or not? Let's understand this with a simple experiment.

Materials Required:

1. Fast growing seeds like beans or cauliflower or basil planted in a cup or earthen pot
2. Box (empty shoebox)
3. Paper 4. Cutter 5. Tape or glue



Procedure:

1. Gather your materials and plant the seed a few days in advance of conducting this experiment so that it sprouts.
2. Now it's time to create the light maze! Start by cutting a large hole at the top of your box. This acts as the exit of your maze.
3. Close your box and make sure nothing obstructs the hole you just made. If needed, cut off any blocking material. Draw and cut out a circle in the divider, on the opposite side of the hole at the top of the box. Place your plant cup inside the box, and glue or tape in the shelf above the plant cup. The fun part of this project is designing your own maze, we decided to go with a single divider, but you can get creative! Just make sure you don't block off the light completely.
4. Close the box up and place it near a window. Now watch your plant grow! Make sure to keep your plant well hydrated. Check back every day and see your plant travel through the light maze.





Observation - Plants grow toward the light as a way of generating more energy through photosynthesis. So how do the plants grow toward the light? Plants contain a hormone called auxin, which causes plant cells to grow longer. Plant cells on the shady side of a plant contains more auxin hormones, making the plant bend toward the light.



Kinal Pandya, Ahmedabad

With a strong academic background in Microbiology (B.Sc. and M.Sc.), Ms. Kinal Pandya brings insightful perspectives to the Tapasya newsletter. Currently pursuing a B.Ed., her writings reflect a deep understanding of biological concepts.



Science Experiment - 04

- Saurabh Malpani

Have you ever noticed that water wets any surface whereas mercury doesn't? Water sticks to the walls of container whereas mercury in the thermometers doesn't? What is the reason? Let's get the answer with the help of this experiment!

1. APPARATUS:

- Glass jar
- Mesh bag
- Rubber bands.
- Water
- Index card paper
- Pan or tray.

2. PROCEDURE:

Step 1: After gathering all the required materials, put mesh over the jar, and fasten it on tight by wrapping a rubber band around it. Fill the jar 3/4th with water.

Step 2: Put a piece of index card on the top of the 3/4th full jar and flip it upside down.

Step 3: Now slowly slide that index card off the bottom of the jar and write your observations to us on our email id: info.dsppl@gmail.com.

(Note: Repeat step 2 & 3 unless the index card just falls off!)

PRINCIPLE:

Water molecules are attracted to the other water molecules by a force called cohesion and so they form a membrane between the mesh fibres. This phenomenon is called as SURFACE TENSION! It is also the reason why water droplets are spherical in nature. This is the reason why water molecules wets the surface whereas mercury doesn't. Also, the reason how water striders stay atop of water.





Application of Physics:

Why Do We Use Hot Water and Detergent to Wash Dirty Clothes?

By Dr. Duhita Lakhatariya & Dr. Pankaj Sharma

Lecturer Physics, Government Polytechnic Ahmedabad

Washing clothes may seem like a simple task, but it involves several principles of physics. Two important concepts that play a role in cleaning are temperature and surface tension. Understanding these principles helps us see why hot water and detergent make washing more effective.

1. Why Do We Use Hot Water to Wash Clothes?

Hot water helps remove dirt and stains from clothes more effectively than cold water due to the following reasons:

A. Reduction in Viscosity of Oils and Grease

Many stains on clothes contain oil, grease, and fats. These substances are more viscous (thick) at lower temperatures. When water is heated, its thermal energy increases, which reduces the viscosity of oil and grease, making them flow more easily. This allows the detergent to break them down and remove them from the fabric.

B. Increase in Molecular Motion

When the temperature of water increases, the kinetic energy of its molecules also increases. This means the molecules move faster, helping to break down stains more quickly and wash them away.



CONTINUED

C. Faster Dissolution of Detergent

Hot water helps dissolve detergent particles faster, making them more effective in trapping and removing dirt.

2. Why Do We Use Detergent?

Water alone is not enough to clean clothes because it has high surface tension, which prevents it from spreading and penetrating fabric fibers properly. This is where detergent plays a crucial role.

A. Surface Tension and Detergent- Surface tension is the force that causes water to form droplets instead of spreading out. This happens because water molecules are strongly attracted to each other (cohesion). High surface tension makes it harder for water to soak into the fabric and remove dirt. Detergents contain surfactants (surface-active agents), which reduce surface tension, allowing water to spread and penetrate clothes better.

B. How Surfactants Work: A surfactant has two parts:

Hydrophobic (water-repelling) end – attaches to grease and oil.

Hydrophilic (water-attracting) end – binds with water molecules.

This process breaks up grease and allows it to be washed away by water.

C. Formation of Micelles - Surfactants in detergent form micelles, tiny structures that trap oil and dirt. These micelles keep the dirt suspended in water, preventing it from reattaching to clothes.

3. Combining Hot Water and Detergent for Effective Cleaning

Hot water loosens dirt and grease by increasing molecular motion. Detergents reduce surface tension and break down grease using surfactants. Together, they make washing clothes faster and more efficient. Thus, the physics of temperature, viscosity, and surface tension explains why hot water and detergent make washing clothes much easier!

DSPPL COMICS

Story: Komal Amol

Illustrations: Ashish

SAHIL ONE DAY WITH A CURIOUS FACE GOES TO HIS GRANDPA AND ASKS:



Komal Amol, Bengaluru

She has been associated with Reiki Vidya Niketan since 2007 and one of our DSPPL teachers for subjects like Ancient Science, Drop IT and Agnihotra. Professionally she is a Software Engineer working in an IT firm in Bangalore.



Pathway to Wisdom EduSPOT, SOFT & STRONG Programs for Children & Youth

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Holistic Approach



Moving from Information to Wisdom



Complementing School Curriculum



Dates	Program	Eligibility (Birth Dates)		Fees
16th April to 16th May, 2025	EduSPOT (Daily 1 hour)	1/4/2017	31/3/2020	Rs.600
6th May to 11th May, 2025	SOFT 1 Non- Residential	1/4/2016	31/3/2017	Rs. 1200
6th May to 11th May, 2025	SOFT 2 Non Residential	1/4/2015	31/3/2016	Rs. 1350
6th May to 11th May, 2025	SOFT 3 Non Residential	1/4/2014	31/3/2015	Rs. 1500
19th May to 24th May, 2025	SOFT 4 Residential	1/4/2013	31/3/2014	Rs. 5000
19th May to 24th May, 2025	SOFT 5 Residential	Those who have attended SOFT 4		Rs. 5250
19th May to 24th May, 2025	SOFT 6 Residential	Those who have attended SOFT 5		Rs. 5500
28th May to 1st June, 2025	STRONG 1 Residential	Age Group - 15 to 25 years		Rs. 5750
28th May to 1st June, 2025	STRONG 2 Residential	Those who have attended STRONG 1		Rs. 6000



DSPPL - Devrukh Spiritual Prowess Pvt. Ltd.

For Registration  www.dsspl.in Any queries?  info.dsppl@gmail.com

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DSPPL Events

25 years of Devrukh Ashram

Vardhapan Diwas Celebrations - 13th -15th March 2025

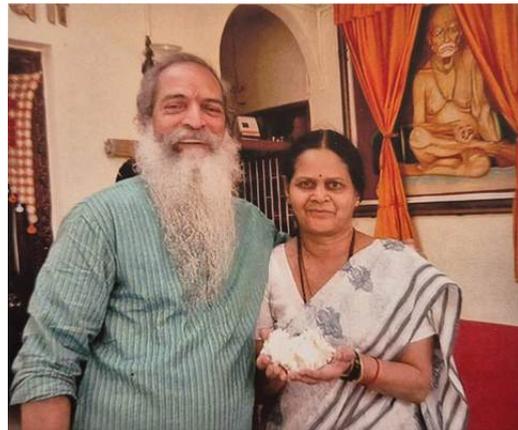
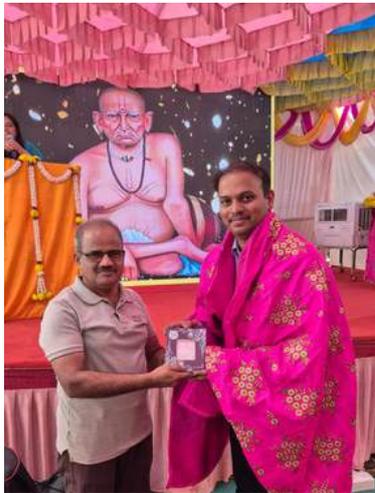
It was a momentous occasion for all of us as we celebrate the 25th anniversary (Vardhapan Diwas) of the establishment of Swami Samarth Math in Devrukh, founded by our revered Guruji Ajit Telang Sir. The grand festival took place over three days—March 13, 14, and 15, 2025—marking this significant milestone with devotion and enthusiasm.

True to the rich traditions of our Math, the Swami Sevak Pratishtan Chaitanya Trust trustees and the DSPPL directors worked tirelessly with meticulous planning and dedication to ensure a divine and grand celebration. Their relentless efforts, coupled with the blessings and inspiration of Shri Swami Samarth—whose reassuring words, "मै गया नहीं ज़िंदा हु, तुम डरना मत हम तुम्हारे पीछे हु" continue to guide us—and the unwavering grace of Guruji Ajit Telang Sir, led to the festival's resounding success.



DSPPL

DSPPL Events



DSPPL Events

DSPPL launches 5 books during Vardhapan Diwas Celebrations - 13th -15th March 2025

1. Ganpati Atharvashirsh
2. Katha Baavni
3. Dashavatar
4. Chaitanya Lahiri
5. DSPPL Digest





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Book Name : Tapasya

