

KALEIDOSCOPE

September

ISSUE 157



- 1 Science Corner - Aaryan
- 2 Fopes Opinions
- 3 Ervironmental-Corner - Oliver
- 4 Teachers Day Reviews
- 5 Contribution of the Younger Grades
- 6 Future Of Edtication - Mahavir
- 7 Comic.Strip - Ennio
- 8 Poem - Oliver

Science Corner



Nuclear reactors capture the energy released from uranium fission and generate electrical power. This nuclear power reactor depends on neutrons smashed within the reactor core, splitting the uranium atom, heating it up, releasing more neutrons. This heats the water further, creating steam that eventually powers turbines attached to generators that produce electricity.

To feed this reactor, fuel comes in the form of uranium that has developed into tiny, compact, dense, fine-grained ceramic pellets. Such pellets are fed into lengthy rods; these long rods are introduced into the reactor.

The fission (Fission occurs when a neutron slams into a larger atom, forcing it to split into two smaller atoms of uranium atoms) and use of the steam to generate turbines, which will produce electricity, makes it efficient, while providing a steady supply of power that minimises reliance on fossil fuels.

Nuclear power plants use uranium to generate electricity. Inside the reactor, neutrons hit uranium atoms, causing them to split apart and release energy. This energy releases heat, heating water and creating steam that drives turbines to produce electricity. The uranium used as fuel is made into small, dense ceramic pellets that are placed in long rods (control rods) inside the reactor. This process is efficient and provides a steady supply of power, reducing our reliance on fossil fuels.





Fopes Opinions

Letter to myself ten years in the future



Dear Luce, I hope that in 10 years you've already accomplished some of the things that you've hoped to do by that time.

There are so many things I wanna do before I literally turn 23?!? But I know I probably won't accomplish all of them. In 10 years I hope I will be done with college, or at least almost done with college. The thing that I'm hoping to study in college is literature and theater. I hope that you've met some new fun, crazy and sweet people to hang out with in your daily life. And I hope that you still have some of your old friends from your teenage years.

The things I hope you've already done are travel with your buddies, saw the "Outer Banks" cast, found out what you wanna DO WITH YOUR LIFE (no pressure). I hope hope hope that you live in Italy!!! And have a house next to the beach or at least an apartment like 10 minutes away from it.

Obviously I would like you to please be financially stable... and have one or two dogs. To be specific I want two golden retrievers, and I want them to swim in the water with me (to be very specific). That's my letter to my future self, I would've written more but it's a bit creepy that a lot of people could read this. Bye bye:)

-Luce



If I could send a letter to myself in 10 years, here is how it would go:

Dear 24 year old Aarohi

Hello, this is me from 10 years ago. I'm sure a lot has changed, and I want to know so much about it!

First, I've been dying to ask: What did we choose? I am so confused about what to do with my life and what to pursue, so I want to know, what was my final decision? Was it good? Did I like it? Did I work hard for it? Was I good at it? Or did I end up doing something that made me absolutely miserable? I feel like sometimes we still procrastinate a bit, but hopefully, I still do my work. I want to know so badly!

What are some skills you have learned? Do I look cool with them? I have way too many things I want to talk to you about in person, but sadly I can't.

I also really want to know if we are still close with our old friends or if we've drifted apart. Have we met anyone new? How much has our life changed? Did anyone, in particular, completely change our life? And how many regrets do we have? I really want an answer to this because I want to know how to avoid it. And how is our physical state? If it's bad, what happened to make it so bad?

Where do we live now? It's a very common and obvious question, but I can't just not ask it. Do we live abroad? Or are we still in India? Do we live with someone, or do I live alone? Were we able to travel the world with our friends or by ourselves? Were we even able to leave the city?

If yes, then how many foods have we tried? Which would you recommend as the best? And are we rich enough to afford all these foods? Have we learned any new languages?

Also, how is our family doing? Has anything happened to them recently? What were the losses we had with friends, family, anyone? Is our family happy with us? Are they proud of what we have done? Are you proud of what you've done? And an unnecessary question: Did we get all the piercings we wanted?

Lastly, I would like to ask you: What piece of advice would you give me? What is something you would change in the past? Something you wish you could tell me right now as I begin my teenage years. Would you like to come back here? Do you still wish sometimes that you were a kid? I still have so much to talk about, but I can't really fit it all into one letter. But in the end, I hope we do well or are at least stable enough to handle ourselves. I'm so excited but also kind of nervous to grow up! I'll see you soon. Goodbye.

-Aarohi

Hello Future Me,

I hope you are doing great! I'm really eager to learn about your life.

Do you have lots of friends? Are you singing and writing books? Are cakes and cookies still your favorite foods? And are you still living in Auroville?

I think you started baking your own cake and cookies.

Mm! Chocolate, it still melts your heart, right?

Be happy like me. I am putting in lots of effort so you become a good human being.

I know you are smarter than me, but I am not jealous.

Be kind to yourself and others.

I am proud of you, future me! I know you are growing up to be an awesome person.

Never stop playing music, writing books, learning, being kind, or eating cakes, cookies, and chocolate.

Have fun with your successful life, and I will continue to work hard for your success. bye!

Love,

Past Harshana



Hi Megha, I'm you from 10 years ago.

I have a couple questions to ask you, as would anyone who's able to write a letter to themselves from the future.

First off, which high school did we go to? We don't have many options, but even then I still don't know which one to choose. Did we make any friends in highschool whom we still talk to? And how was highschool? Was it what you hoped it would be, having fun with my friends, or was it just studying and sadness?

Second off, where do we live now? Did we leave India and go to college in the US like I wanted us to? I hope we went to a good college, but we've never been someone who liked studying, so I just hope we went to a decent one.

Thirdly, what type of job do we have? I have no idea what I want to do with my life, so I hope you figured it out. Did we go into something with math, or did we do something in finance, or are we unemployed?

Now, let's talk about our parents. Are we still in contact with them? I hope we're able to speak to them once a week and be able to make the trip once a year.

And with our sister, she's going to be somewhere in the US so we probably visit her often. Does she still bake?

I have more to ask you, but I'm sure you're busy doing adult stuff, so bye for now.

- Megha

Environmental Corner

Traversing through all the different roads we have in Auroville, the question: "What's material for road building?" has popped up in my mind a lot, so I decided to research and write this article. "Best" can mean many different things in this situation, like weather resistance, cost, maintenance needs, permeability, friction or safety, ease of use and environmental impact, I want to cover everything, with a focus on the last one, hopefully we can have a good idea on what roads we should keep building or start building for a progressive and sustainable future.

Dirt roads are what every single city has started on and Auroville is obviously no exception. They can sometimes be reinforced with gravel or rubble and are quite easy to turn pot-hole filled if under heavy rain or traffic. But just as quickly as the pot-holes come they can go, as you simply need dirt and rubble to fill them instead of concrete or tar which need to dry or be watered. Dirt roads don't always suffer from water damage if there is good water management in the area as they are very permeable, so water that can stagnate and make holes simply goes through into the ground. Dirt roads however can get filled with puddles in the monsoon, as I'm sure every Aurovillian has experienced, or erode making the ground very uneven, again, depending on how the water is managed. They are tied to that more so than other roads. Dirt roads are the cheapest of all with pretty much just the maintenance cost and are the most environmentally friendly as no CO₂ is released from making them and their permeability helps groundwater replenishment. Including the safety/friction of the road, like when they get slippery from mud and the ease of use or how nice they are to use, like the amount of dust or mud splatter. I would give dirt roads a 5/10

Now in Auroville we don't really have specific roads for specific vehicles, we have dense networks of dirt pathways for pedestrians and cyclists, but all of our other roads are fully mixed use, without lanes for cycles or any sidewalks.

In other cities around the world different materials are used for different things, like in old towns in France, they tend to keep the old cobbled roads in the city centre and different select roads and I think it's great. It forces any drivers going on these roads to drive very slowly, making them opt for the smoother tar road, and makes it much more pedestrian friendly. In India hand placing bricks is much cheaper than in the west because labour is cheaper, so brick roads aren't that expensive to manufacture here. Brick roads are permeable, allowing water to flow through easily if done right and I think they make a place look much nicer and more natural than black tar. They're also less hot to walk on and have pretty good traction if a vehicle does drive across, preventing them from skidding.

These roads can be quite easy to maintain, with just having to replace a couple bricks if a pothole does occur or filling it in with rubble, cement or dirt. I'd give them a 8/10. They are very good for pedestrians, that limits car use and their carbon footprint is quite minimal as even if concrete is used for the bricks it doesn't have to be very thick and heavy machinery isn't needed to make them. Although these roads aren't always able to carry big loads and they're definitely not suitable for heavy traffic or highways.

Concrete roads are durable and can support heavy loads, making them ideal for areas with high traffic or large vehicles. However, the construction process requires significant use of heavy machinery, including mixers, pavers, and compactors. This increases their environmental footprint, both in terms of fuel consumption and the CO2 emissions from cement production.

One notable issue with concrete roads is that they can sometimes be too smooth, leading to slipperiness when wet. This can pose a danger to vehicles and pedestrians, especially if the surface is polished or not properly textured. Additionally, because concrete is impermeable, it doesn't allow water to seep through, leading to runoff and potential flooding. There are a few ways where you can make it permeable but that makes it weaker and more expensive, so it could be used on pedestrian paths.

Overall Rating: 5/10

Asphalt roads are commonly used due to their smooth surface, which enhances ride quality for vehicles. They are flexible, allowing them to withstand various weather conditions and heavy traffic loads, making them a practical option for busy areas. Asphalt has quite the perfect texture for highish speeds as it's not too bumpy but still skid resistant.

One of the significant advantages of asphalt is its ability to be recycled. The process involves removing old asphalt from the road surface, crushing it, and then reusing it in new asphalt mixtures. This infinite recyclability reduces waste and the need for new materials, thus minimizing the environmental impact associated with production. While this aspect is beneficial, it does not entirely offset the initial environmental costs of petroleum extraction and processing. Asphalt is impermeable.

6/10

it's clear that brick roads are the most favorable option for balancing pedestrian and vehicle needs. Their permeability and pedestrian-friendly design make them ideal for mixed-use areas, encouraging walking and cycling while still accommodating light vehicle traffic. The low environmental impact, coupled with easy maintenance, positions brick roads as a sustainable choice for Auroville.

Teachers day experiences

Light group 1

I really liked my time with the light 1. It was so much fun, and they were extremely cute. We asked them to make handmade cards for their teachers. They really put an effort into doing so, and it seemed like they did enjoy making those cards. Then, there were many games in which everyone took part and enjoyed immensely. Well, it comes as no surprise that my favorite group came together fast as they really proved to be way smarter and more perceptive than I ever knew to expect. I did my best at bonding with them and did my best to make the experience as enjoyable for each of us as possible, but somehow they didn't really connect to me as much as I had hoped.

It's interesting that the group that had to teach them before me said the kids were quite difficult and annoying, but I found them really nice and well-behaved. Since I only spent about forty minutes with them, I don't have much to say, but I feel that I didn't get to fully see what they were capable of. I wish it could have been for a longer time so that we could have had more interaction because I believed that we would really have done some exciting things and had a much stronger bond. In general, though, it was great, and I would have wanted to spend more time with them to see how much more we could have accomplished.

- Celestin

Light group 2

With light two we did rhyming poetry. I was thankful that they were a very small group and that they were easy to manage. They were probably my favorite group to be with, I liked it a lot and I am pretty sure that they liked it too. We didn't really plan until the day of, so Oli and Aarohi prepared a few short poems, and the students had some nice ideas. I am sure that they loved teachers day as much as we did.

- Milo

Peace group

My teachers day experience with Peace group:

Peace can be not so peaceful, sometimes they were restless to do something, or had a hard time being quiet but when we gave them something to do and had more patience with them they were more open to listening to us. During the class with Peace group we all made a story, then we made the story into a play, and then we acted out the play and in the end we gave them all Chocolates. Overall it was a fun and enjoyable experience. I wouldn't do it again.

- Raaya

Grace group

On Teacher's Day, I had to teach ATB to the Grace Groupers. I didn't expect them to be such a large group, and I also didn't expect them to be so loud, which I quickly realised was wrong. We started by asking them to sit down and quiet down. We let them choose which game they wanted to play, and they picked slam-ball. Since there were so many people, I decided to join in and play with them and I ended up winning.

Next, we played Jurassic Park, where the goal was to cross to the other side without getting tagged. We played that for about 15 minutes until it was time to stop. Since there wasn't much time left, we finished the class with a few rounds of the killer game.

In the afternoon, I had to teach them again, along with another group. However, since the other group was already playing Werewolf, I didn't need to teach them, so I joined their game instead.

- Meet



Our Theater Performance - by Alyssa



Last year we did a play. 6 friends were laying down on the beach. 6 friends stood up and the fox said, let's have an adventure in the sea. Everybody started to look for a boat.

Spider said - "here's a boat!"

Everybody pushed the boat inside the sea and then they were in the sea. A big storm came and a big wave pushed them to the land.

I was the fox. I stood up and said - "wake up! Wake up! We are totally in a different land".

Then came 2 dogs and said "who are you? From where are you?"

Spider said - "where are we?"

Dog number 1 said - "you are totally in a beautiful and safe place"

Fox said - "we come from a far away land"

Then one rabbit disappeared. Everybody was looking for the rabbit and found a cat.

Cat said - "I know let's look together for the rabbit"

Group 1 found two girls. They were playing. They said - "Yes, rabbit was hungry and we brought him to carrotland. There we found rabbit and he asked "help me to pull this big carrot out!"

They pulled, they pulled and they pulled!

Fox said - "butterfly, come help us!"

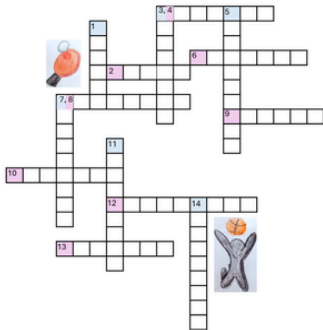
She came and we tugged. We took out the carrot and everybody fell down. They opened their eyes and found that they were at the beach. They were asleep and it was a dream!

Visit to the zoo - by Tara



One day I went to Vandalur zoo and I saw a Bengal tiger in a cage. He was turning and turning. The children were laughing at the tiger.

A Sports Crossword - by Ayish



DOWN

- 1 the net is on the floor
- 3 you kick the ball
- 5 the goal is in the air
- 7 you hit the ball using a broomstick
- 11 you fly on b...ms
- 14 the ball is made with feathers or plastic

ACROSS

- 2 Americans play it and call it football
- 4 you throw a plate
- 6 an old folk sport played in South Africa
- 8 includes bats and balls and homeruns
- 9 Austraiians play it and call it football (sort of)
- 10 it's a game of breath and is physical
- 12 throwing multiple balls
- 13 includes bats and balls and runs



My Frustrations When The Time Rushes - by Salvador (and I feel that I don't have time)



Example 1: When I'm cycling on my way to the school, I'm on the main road. The people who are behind me are going more faster than me. I get frustrated and I think people are rushing me mentally and physically. Sooo...I got mad and I said bad words and suddenly I fell from my cycle



Example 2: When I'm in the line to get lunch and I get distracted from something or somebody, the people start to scream at me and rushing me. So, then I feel frustrated and I start to squeal



Example 3: When it is 8 o'clock and I'm not ready for school, I get frustrated. Because I'm not done with my hair, my clothes, filling my water bottle and my bag, or even my breakfast

Example 4: When I'm on dictation and I'm so far from it because I'm in a bad mood, I get frustrated. The other children are finishing and I'm on start at that time. I get anxiety and feel I don't have time

Example 5: When I was baking my mom told me that we have to go to a friend's house at 5:00. I started baking at 4:30. So, I just had 30 minutes to make cookies and past 30 minutes I was complaining to my mom. I didn't have my cookies and I felt frustrated



Future of Education: Online vs. In-Person Learning

Technology is creating a revolution in education. There are many options now available which aid the

Learning process of students as well as planning for teachers with the help of Artificial intelligence.

As Karim Lakhani stated,
'AI Won't Replace Humans, but Humans Using AI Will'

In the future, will VR (virtual reality) and AI make teachers obsolete, or will in-person education with Blackboards still thrive in terms of their effectiveness in learning outcomes and motivation?

Let's compare:

Online Education

Accessibility and Flexibility: The biggest advantage of Online education is that it can be accessed from anywhere. Geographical limitations do not prevent one from learning. Covid pandemic is the classic example. Learning pace and time required to grasp the material is different for different people.

If the material is available online then it can be revisited to understand and revised for better retention.

Technology integration: There are so many simulations, models and interactive tools available online that can be used to understand the complex topics in Mathematics and Science. Teachers can use the flipped classroom so that students can learn online if they did not get the material in the classroom.

Self-Discipline: Students need to have greater responsibility and discipline to manage time to meet the goals. Procrastination and other home distractions might interfere with the online coursework.

On the contrary, students learn to avoid distractions and become more responsible to manage their learning which is a crucial skill for life long learning.



On a lighter note, online classes offer a unique blend of convenience and creativity. You can log in, give a nod to your presence, and then sneak in a quick nap while the lecture is on.

And the ultimate power move: muting your teacher if their lecture starts to feel more like a lullaby than a lesson!

In-person

Interaction: Interaction is the most important part in which student learns to engage with the topic in real time. Discussions with peers can lead to more exploration of the topic in depth. The direct engagement with the instructor between the teacher and a student is vital for immediate feedback as well as encouraging emotional understanding.

Completion Rates: Students are more likely to finish the course that they start as there is a timeline set and strong support given by the teacher. There is a structure in place which helps the students to reach the goals set for the topic or a course. Often, the lack of structure results in students struggling to achieve results through self directed learning.

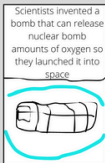
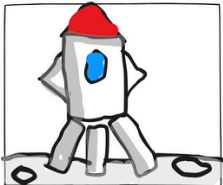
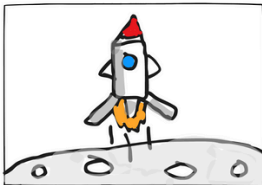
Motivation: The classroom setting and interaction with peers can significantly boost the motivation to learn. Solving and thinking collaboratively will encourage students to learn the material effectively.

Ultimately, the choice is very much dependent on the individual's learning style and also the circumstances e.g geographical location.

Although in-person classes may not offer the luxury of napping or muting your teacher but you can be a little creative by doodling in your notebook, transforming your boredom into an art.

In summary, if one has intrinsic motivation and self discipline then online learning is a good solution due to its flexibility to learn at your own pace and use technology to master the material. In contrast, in-person education has the benefits of interactive and collaborative learning with benefits of real time feedback from the teachers.

The Future year: july
4th 2088





After a long time the black hole consumed everything, not even atoms remained.



30 years later...



Long, long, long ago, somewhere in the future, the wizard sits:
He orbits, like a satellite, with nothing but his flashlight, a notebook, and a pen.
While he's laughing and he's crying,
he's dancing, and he's flying, every so often, he looks around and ponders,
"Where am I?"

He circles and circles, round and round, floating in space, is the earth spinning, or is he?
He's writing, and he's fighting with his own silly thoughts.

Everything he does, he does a lot.

This journal of his isn't just for any old wiz, because anything in it happens to happen.

If anyone knew what it did, they would keep it in a box and close the lid.

They would write in it and say, "I have a house of gold and lots of diamonds in a stronghold."

But this special wizard, always revolving,

has amnesia, so he can't do the solving.

In his idleness, which is eternal, he likes to change the passing of time, that's why he's called the wizard of time.

If anyone knew he was there,
they would send up a spaceship and
snatch out his notebook.

But alas, he stays hidden,

almost bedridden,

stuck in his orbit forever,

never having a thought

about what he has or what to do.

This wizard was once a fine young lad
who hadn't much, but a pen and a flashlight
and still, he was content.

Yet, he wanted for something to write in.

He searched far and wide, but the books seemed to hide whenever he was nearby.

He went to sea but had to pee,

so he went back on land,

where he was given a hand.

He knows not by whom.

The hand was delivered in the mail.

It was rather pale,

so he went to the beach to give it a tan.

ust him, his pen, his flashlight,

and his new hand.

He held on to his hand, which held his pen and light, when they started to take flight.

Up and away, his hand was taking him on a journey.

Past the stratosphere, the hand gave one last wave, before it dissolved to mush and melted away.

Once he reached orbit, it really started to hit:
He went into a bit of a fit.
He wept, but then drank up his tears,
because up here, it's not like he had any beers.
For the first time ever, he was sad.
He was a wizard.
He could not die.
All he could do for the rest of his life
was fly and cry,
because still, he could not find his book.

Seconds, or years, or months passed by
when he started to forget:
How did he get here?
What did he want?
He was trapped—him, his thoughts,
and the beautiful earth,
neither above nor below him.
He was directionless and lost,
with no need to be found,
because by then, he'd forgotten
he forgot.

One day, or night,
the wizard was in flight
when he saw something in the distance.
This time, it wasn't a star or the moon,
but instead, a leather-bound novel with no words or cartoon, on the front, it said,

"The Book of Truth."

The wizard felt a sense of excitement,
though he didn't know why.
He grabbed the book, his pen, and his light
and began to write.
A forever-long poem about the passing of time and how life can be sublime, even if you're
lost and alone or have forgotten where to go.
So there the wizard orbited, like a satellite, choosing for his forever to take less time
by making it rhyme.

Thanks for reading
The Kaleidoscope



Editors note: Sorry for publishing so late, we had some trouble. Hope you enjoyed!