





# DIGITAL TRANSFORMATION IN HIGHER EDUCATION: CURRENT TRENDS

Digitalization is one of the major trends in our educational world. Transforming older system into digital system is on the rapid force in institutions. The following ideas may help us to be updated in our realm of knowledge on digitalization of institutions.

Digital transformation in higher education has its effect on two main parts:

- Services transformation focuses on creating new education products and transforming
  existing products into digital ones. This usually means converting offline lectures into video
  ones, creating digital texts and quizzes. Moreover, it includes providing digital means for
  communication between students and teachers.
- Operations transformation would basically require a digitalization of all the common operations educational institutions have such as students' admission, registration for programs and courses, examination, program development, and their quality assurance. In addition, supporting services as study planning, facility management, teacher allocation, scheduling, etc.

Higher education managers are already making serious investments in the Internet of Things (IoT). This idea makes us to go for Smart Campus.

IoT provides a lot of advanced data and helps to automate a lot of useful processes:

- Intelligent thermostats can balance the temperature inside the building by adapting to the outside and inside situation. This will save money for universities and colleges and create a more comfortable environment for students and teachers.
- Smart lightning. Replacement of traditional lighting to LED. A smart lighting system across
  the whole campus will save even more. Future campuses can transform into mini smart cities
  by installing smart informational kiosks, tracking vehicle and foot traffic to optimize load
  and using smart electricity grids.

#### Blockchain

The blockchain is a modern technology that is used to store and transmit information in a distributed, secure and effective way. Educational facilities may use blockchain to store student data such as personal data and learning performance. The benefit of such technology among others is security. Moreover, blockchain is commonly used for authenticity check, so it will hugely reduce cheating.

#### Security

With the growing implementation of IT technologies and IoT devices, the need to secure the network from cyber threats emerged. Higher education institutions must implement new tools that enhance cybersecurity, such as user and entity behavior analytics (UEBA), which detects suspicious activities in typical user behavior.

#### AR/VR

Other emerging technologies in education are Augmented and Virtual Reality. They are already being used in classrooms to create lessons more informative as these technologies can bring animals into classrooms or move the whole class to the moon. Though VR still has blockers in terms of costs and content, AR is a more accessible technology as requires mobile phone only. In addition to enhancing knowledge in the medical, engineering and science disciplines, AR can be used on campus to support orientation for refreshments.

#### Big Data

In the modern world where everything is digitalized, we can use Big Data for better Data Management, analysis, and usage. Big Data in education is mostly information about the performance and abilities of each individual students which can improve their learning experience by personalizing it. Moreover, it is used for better program analysis and is a base for machine learning and AI.

#### AI And Machine Learning

Artificial Intelligence and it's base, machine learning, are a part of the global digital transformation and higher-ed institutions aren't left behind. These emerging technologies are used for AI teaching assistants, advanced analysis of students performance, IoT data, and much more. It is crucial to implement AI as Gen Z is used to it on platforms like YouTube, Google, and Amazon, and they want learning experiences to be adapted to them and be consumed whenever and wherever they want.

Artificial Intelligence can be used in content and Learning Management Systems to create more AI-enabled learning tools that not only generate an answer to students but provide them with a clear explanation and step-by-step guide. Such learning approach will increase students efficiency as they can learn anywhere and anytime.

Such a small part of campus digital transformation in higher education helps students settle in and feel more like home. As a result, retention rate increases and freshman stress reduces.

#### **Increased Accessibility**

Universities try to make education accessible to people with disabilities in order to reach ADA compliance. Universities are implementing modern technology like speech recognition and transcription for students who are deaf or hard of hearing. Before-mentioned IT solutions in campuses and classrooms provide equal and accessible education for every student. Transcription of lectures not only helps students with disabilities but also it can be used by other learners to search through lectures and review them after classes.

#### **Chatbots**

The commonplace of usage of this technology is university customer service to help quickly handle some of the simpler questions that students have and reduce the load of phone lines.

Besides all the benefits that chatbots offer, they also assist ADA compliance as they can be used by those who are unable to chat on the phone.

**Final Words** 

Any transformation is a challenge, it is quite hard to ruin well-known, comfortable approaches

and replace them with something new and unknown. But the digital transformation is rather a

need than an option. We can start by taking small steps like creating an eLearning platform and

move to something more complex like IoT and AI.

St. Justin's is already in the journey towards e-system as it is celebrating its GOLDEN

JUBILEE this year. This e-magazine is a proof of this initial steps. There is more scope of

broadening its horizons in digital transformation.

Rev. DR. A. Mary Delphine CIC

**Principal** 

#### MAKE MENTAL HEALTH EDUCATION COMPULSORY IN SCHOOLS

#### Introduction

Recently four girls left their bags behind and jumped into a well ending their lives. They were all students of class XI, a grade at which most of the students feel extremely unhappy and resentful because of the pressure of the Board examinations, The symptoms that one can notice among the students because of the pressure exerted by the Board exams include changes inapposite, changes in sleep, feeling of sadness and hopelessness, difficulty in concentrating, fatigue and low energy, impaired thinking, feeling of worthlessness, increased sensitivity to rejection, irritability or anger, etc. The teachers do discuss some of these symptoms in their teacher education course and do pass their examinations to become teachers but find it extremely hard to deal with these symptoms when they encounter them in their classes. How can the teachers deal with these negative traits in the student's mental makeup effectively? The answer would be to focus on the emotional well being of the students in the high school classes by laying stress on the mental health of the students as we focus on the physical health of the students through Physical Education.

## Statistics about Mental Health in our Country

According to the world health organization (WHO), India is a country with one of the highest prevalence of mental illness in the world. About 2, 00,000 Indians take their own lives every year about 14 percent of the people in the country require Mental Health Interventions. The percentage of psychiatric disorders in India is 12.5% among children aged 0 - 16 and 12% among 4 - 16 years old.

One of the factors that are contributing to the worsening Mental Health of the students is the pressure being exerted on the students to work relentlessly and gain admission in the select higher educational institutes in the country, be it engineering or medicine. While there is increasing focus in schools on Science and math, language and social sciences which help build relationships and emotional health are being neglected.

#### The result of Mental Illness

It is time we shifted our focus from intelligence Quotient (IQ) that can reflect in the mark sheets to the Emotional Quotient (IQ) that can produce emotionally stable and happier citizens who can enrich the human capital of the country. The WHO report also states that one in four Indian children in the age group 13 – 15 years suffers from depression. While 8% of Indian children suffer from anxiety, around 10% have no close friends, and 7% of the adolescents were found to be bullied and disturbed due to the comments of their peers, family members or teachers.

#### Mental health education in school curriculum

In this scenario, if we are to make our children in schools a happier lot, we have to make mental health a part of the school curriculum, just like physical education. This will help schools, with the help of trained teachers, to make early interventions whenever they notice deviations from normal behavior or other serious mental issues, of course, such interventions will produce the desired results only when parents and teachers of high school students stop choosing the elective subjects of the children and give the students the freedom to choose the subjects that they are truly interested in B.Ed course curricula to to need to have classes on mental health issues in children so that teachers can deal with such kids in an amicable and effective way.

#### **Benefits of Mental health Education**

Mental health Education will not only help the students become happier in their lives, but will also enable them to face the challenges of life that they will encounter later in life, in an effective way. It should be realized that if many of the so-called brilliant students, who are labeled as such because of their high marks in University of Board examinations, are unable to succeed in life, it is because of lack of life skills that can be acquired from mental health education.

#### **Conclusion**

Mental health education in schools will have a profound positive impact on mental health issues like depression, anxiety, ADHD and what have you. Mental health education will also contribute immensely to the creative energy of the students and makes them think in an out – of – the box way instead of the conformist pattern which is the norm today as students today are

largely passive learners and do not dare to question the why and what of the issues that are discussed in the classroom. For this to happen in reality and unleash the creative energies of the students, the overemphasis on the marks in the Board examinations or any other terminal examination should be done away with. Plenty of ideas for reform of the Board examinations have been given over the years but they seem to have been confined to the pages of history. If we are to be a happier nation, we have to make mental health education an integral part of the school curriculum.

REV. SR. DR. M. AMALORPAVAM
SECRETARY& ASST. PROF. IN TAMIL EDUCATION
ST. JUSTIN'S COLLEGE OF EDUCATION

#### WOMEN EMPOWERMENT THROUGH YOGA

Women's empowerment and gender equality are human rights that lie at the heart of the development of a nation. Despite the progress that has been made, six out of ten of the world's poorest people are still women and girls; less than 16 percent of the world's parliamentarians are women; two thirds of all children sat outside the school gates are girls and, both in times of armed conflict and behind closed doors at home, women are still systematically subjected to violence. To uproot and get rid of all the prejudices against women, they need to gain strength physically as well as mentally. A piece of yoga practice every day will definitely make women gain more physical strength and get rid of all physical difficulties and diseases. With gain of mental strength women can come out and fight against all discrepancies with increasing self-confidence. They will thus become more powerful than ever before. It is necessary to conduct training on women's empowerment based on yoga. Yoga can empower women in four waysphysical, mental, emotional and spiritual health. All these can be attained through yoga practices that include yoga Sana, pranayama and meditation.

#### YOGA AND WOMEN

Yoga is a system of personal development that focuses on the body, mind and spirit. Breathing and meditation can ensure peace of mind and physical well being .Yoga means ''to join together or union'' and is seen as a powerful tool to bring about balance and harmony between the body and mind. Breathing exercises or pranayama helps in revitalizing the body and mind ,thereby leaving you refreshed and calm. The benefits of yoga have made it a popular health and fitness practice the world over. The fundamental purpose of yoga is to foster harmony in the body, mind, and environment.

Practicing yoga has innumerable benefits:

- ➤ Increasing flexibility
- ➤ Increasing lubrication of the joints, ligaments and tendons
- Massaging of all organs of the body
- ➤ Complete detoxification
- > Excellent toning of the muscles
- ➤ Mode moderation and peace of mind

- > Posture perfection
- > Improved digestion
- > Lesser stored fat
- ➤ Healing injured back muscles

Yoga can be instrumental in inculcating self-discipline and improving concentration and memory. It can be beneficial when practiced by young people so that they can keep their natural flexibility over the years. Teenagers can gain inner strength to help them cope with stressful and negative influence and also maintain their youthful flexibility. Older people find that gentle yoga asanas relieve problems such as poor noticed that yoga can relieve pregnant women of problems such as backache and depression as well as provide relief during labor. Deep breathing enables complete relaxation and promotes sound sleep. It promotes inner harmony and brings about mental clarity. The stretching exercises ensure that all muscles and joints are stretched and the organs are well supplied with blood. Yoga also benefits and complements sporting activities too. It trains the practitioners to make full use of their breathing apparatus and increase lung capacity. The focus is on looking inward and feeling better.

A.MARIA JEYACHANDRA RANI

SELECTION GRADE PHYSICAL DIRECTRESS

# **Read Something Inspiring Each Day**

Our ancestors begin their day with prayers and shlokas. It is well known that every hymn and shlokas we recite spreads positive vibes in our environment and brings peace and happiness. Similarly, when we are feeling low, inspirational stories impart peace to our minds besides giving fresh impetus to face adversities.

Many people read the Bhagavad Githa and try to follow its sayings. It gives them much hope and strength. Similarly, people read the Bible and try to practice its precepts. These are books that have stood the test of time and shown the right path to millions, especially when they are facing crisis in their lives.

When I commuted to work by bus, I found people reading such books to begin their day in peace. I also adopted the habit and found myself reading to face any kind of problem throughout the day. The inspirational reading gave me the strength and courage to face all adversities and keep my cool. It taught me to take one day at a time and deal with problems optimistically. In our daily lives, when we read inspirational thoughts we are motivated to do our best and achieve positive results during the day. You too can begin doing so from today onwards.

When the road ahead seems dark and there is no light at the end of the tunnel, read inspirational books acting like beacon they will lead you to illuminate.

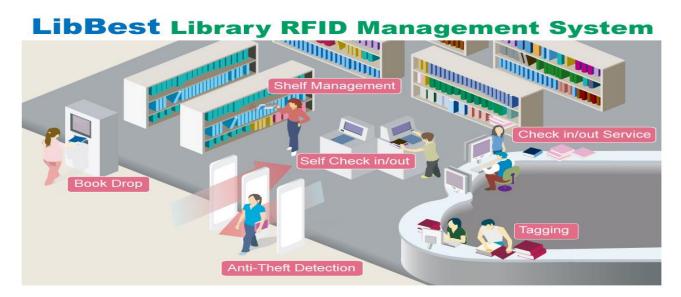
DR.C.MEENAKSHI ASST.PROF.IN EDUCATION

I	I am a woman
	And I'm capable of driving the wheels
A M	take off war planes and trains
M	Don't offer me tips on how to
W	be a programmer
O M	or try and teach me how to
E	prepare for Interview.
N	Don't assume I can't do the
Α	Same job as you.
N	I could probably do it better
D	Than you do.
1	I don't need your help to lift
VV.	Heavy weights or Kilos.
W I L	I will teach my son to
Ĺ	Respect Women.
L	My daughter to
E	Respect and trust her.
M	I'll wear what I want.
P	But in modest way
W	And I want to.
E	Note for whom I want
R	I respect elders
	And expect the same from other.

# DR.C.MEENAKSHI ASST.PROF.IN EDUCATION

#### INNOVATIVE TECHNOLOGIES FOR THE LIBRARY OF THE FUTURE

APPLICATION OF RFID IN LIBRARIES While there are over 500, 000 RFID systems installed in warehouses and retail establishments worldwide, these are relatively new in libraries. Singapore Public Library claims to be probably the first application of RFID technology fully deployed in a library environment in 1998. The use of RFID by libraries since then has grown dramatically. The adoption of RFID technology by libraries promises a solution that could make it possible to inventory hundreds of thousands of items in their collections in days instead of months. In addition, it allow patrons to check out and return library collection automatically at any time of the day. Besides speeding up checkouts, keeping collections in better order and alleviating repetitive strain injuries among librarians, RFID promises to provide a better control on theft, nonreturns and misfiling of a library's assets.



#### **INTERNET OF THINGS**

Since having connection to the internet has become a necessity more than a luxury, The Internet of Things (IOT) receives more and more attention. Just like the RFID (Radio-Frequency Identification) technology, IOT refers to the possibility of connecting everyday devices and transferring data between them. But only in the case of IOT, the data is transferred over the Internet. As a recent article on American Library Association website highlights, there are many "opportunities for library applications, from tracking room usage and program attendance to

monitoring humidity levels for special collections and more". Therefore, the library can offer a better user experience by enriching its services and collections. The example given in the article shows Hillsboro Public Library in Oregon who has introduced the Book-O-Mat, a self-service kiosk which is monitored from the main library to track usage and identify usage trends and make recommendations.

#### **DRIVERLESS CARS**

Driverless cars still seem just a depiction of the sci-fi movies we've all seen when growing up. But according to Ida Joiner, writer of the recently published book called "Emerging Library Technology", vehicles that can travel between destinations without a human driver can be of high importance for libraries in the future.

Librarians will play an important role by providing resources to users who want to learn more about driverless vehicles and who want to pursue careers in these areas. Libraries can collaborate with schools, companies and workforce agencies that are spreading this technology and offer different possibilities to the users such as arranging internships, mentor opportunities for students, host career fairs or workshops to learn about the technology.

#### **DRONES**

The small flying devices remotely controlled are another trendsetter in science nowadays. Either by adding a new technology at the library or creating workshops for users where they can learn to build and use a drone, the libraries can benefit a lot from its use. Furthermore, drones can be used for creating content for the library, collecting data or as Piotr mentions in his article, the drone can be used for delivery service for the library users who don't have the possibility to go to the library; be it because of a disability, or because of the long distance to the library.

There are massive technology developments that are ongoing and underway which can be great additions to the user's experiences at the library.

**RETHI.M** 

LIBRARIAN

# MATHS IS A CHALLENGE IN OUR LIFE

Try,try and Try		
The more I try		
The more I cry		
I practice maths with my heart and soul,		
Yes I am not able to achieve any goal,		
I never get marks in maths,		
Inspite of my great endeavor,		
Fate is never in my favour,		
I really want to improve my maths,		
Because I love this subject,		
And for this I am trying my level best,		
I am candid so I confess,		
In Mathematics examination I always create a mess,		
All the answer I guess,		
And ultimately the marks I get are quite less,		
I believe that If I do ample practice,		
I'll one day probably achieve my goal,		
And seriously have to improve,		
because in our lives maths plays very significant role.		

D.VANI MAHESWARI
ASST.PROF.IN MATHEMATICS

## SPIRIT OF PATRIOTISM UPHOLD THE UNITY OF A COUNTRY

#### **Example of Wing Commander Abhinandan**

Rights and Duties are inseparable. They are two sides of a same coin. So as we have Fundamental Rights that we can enjoy there are also some Fundamental Duties that we must follow & do. They are correlated and either of them cannot be ignored. It is very true that the original constitution didn't contain fundamental duties. In 1976, Indira Gandhi, the then Prime Minister, justifies the inclusion of fundamental duties in the Constitution saying that it will strengthen democracy.

The Fundamental Duties are defined as the moral obligations of all citizens to help promote a spirit of patriotism and to uphold the unity of India. The inclusion of Fundamental Duties brought our Constitution in line with article 29 (1) of the Universal Declaration of Human Rights and with provisions in several modern Constitutions of other countries. Justice Varma Committee was constituted in 1998 "to work out a strategy as well as methodology of operationalizing a countrywide programme for teaching fundamental Duties in every educational institution as a measure of inservice training".

#### **Significance:**

- 1. They serve as a reminder to the citizens that while enjoying rights they also have some fundamental duties to follow.
- 2. They serve as a warning against the anti-national and antisocial activities like burning the national flag, destroying public property and so on.
- 3. They serve as a source of inspiration for the citizens and promote a sense of discipline and commitment among them. They create a feeling that the citizens are no mere spectators but active participants in the realisation of national goals.
- 4. The duty as such is not legally enforceable in the Courts; but if the State makes a law to prohibit any act or conduct in violation of any of the duties, the courts would uphold that as a reasonable restriction on the relevant fundamental right.

- 5. Though non-justiciable in nature, it still helps the court in examining the constitutional validity of the law. If the court finds that a law in question seeks to give effect to a fundamental duty, it may consider such law to be reasonable in relation to Article 14(equality before law) or Article 19 (six freedoms) and thus save such law from unconstitutionality.
- 6. These duties are in the nature of a code of conduct. Since they are unjusticiable, there is no legal sanction behind them.

#### **Features of the fundamental duties:**

**Moral/Civic**: Some of the Fundamental duties are moral duties & some are civic duty. E.g. it is the moral duty to cherish the ideas of freedom struggle but it is the civic duty to respect the National Flag by saluting it & paying respect towards to it.

**Indian way of Life**: It is very true that Fundamental Duties have actually been created from the wide culture present in India & hence it is actually a codification of the Indian way of life.

**Difference between Fundamental Right & Fundamental Duties**: Fundamental Right applies to both citizens & foreigners but fundamental duties apply only to citizens.

**They are non-justiciable in nature.** Fundamental Rights have negative impact on the government. Fundamental Duties have impact on the Citizens.

**Non-justiciable**: They are non-justiciable in nature i.e. they can't be taken to court of law if they are not followed. They lack legal sanction & direct enforcement. But Parliament can enforce it if it wants via proper legislation.

It shall be the duty of every citizen of India:

a) To abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem;

- b) To cherish and follow the noble ideals which inspired our national struggle for freedom;
- c) To uphold and protect the sovereignty, unity and integrity of India;
- d) To defend the country and render national service when called upon to do so;
- e) To promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities; to renounce practices derogatory to the dignity of women;
- f) To value and preserve the rich heritage of our composite culture;
- g) To protect and improve the natural environment including forests, lakes, rivers and wild life, and to have compassion for living creatures;
- h) To develop the scientific temper, humanism and the spirit of inquiry and reform;
- i) To safeguard public property and to abjure violence;
- j) To strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavour and achievement;
- k) Who is a parent or guardian to provide opportunities for education to his child or, as the case may be, ward between the age of six and fourteen years.

#### A GREAT PATRIOT WING COMMANDER ABHINANDAN VARTHAMAN

Exemplary bravery and commitment to the nation displayed by Wing Commander Abhinandan Varthaman is a source of inspiration for the youth.

The safe return of the brave pilot is a matter of happiness and relief for the country, he said on the sidelines of an event here.

Captured by Pakistani authorities on February 27 after his MiG 21 Bison went down during a dogfight with Pakistani jets, the Wing Commander was brought to Delhi after Pakistan released him after 60 hours. Before his plane was hit, Varthaman had shot down an F-16 of Pakistan Air Force (PAF).

The safe return of our brave Wing Commander is a matter of much happiness and relief for India. The exemplary bravery and commitment to the nation shown by him will inspire our youth Extending his best wishes to Varthaman, Gadkari said what else could bring more happiness than his safe return with full pride. Varthaman was brought to Delhi after Pakistan released him through the Attari-Wagah border late Friday night.

After he was captured, Varthaman showed courage and grace in the most difficult circumstances for which he was praised by politicians, strategic affairs experts, ex-servicemen, celebrities and others.

#### **CONCLUSION**

Fundamental Duties of citizens serve a useful purpose. In particular, no democratic polity can ever succeed where the citizens are not willing to be active participants in the process of governance by assuming responsibilities and discharging citizenship duties and coming forward to give their best to the country. Disrespect is punishable by law. To value and preserve the rich heritage of the mosaic that is India should help to weld our people into one nation but much more than article 51A will be needed to treat all human beings equally, to respect each religion and to confine it to the private sphere and not make it a bone of contention between different communities of this land. Wing Commander Abhinandan has set an example for all of us. Let us uphold our dignity by following him even in most crucial and risking situations.

SR. MARTHAL,

ASSISTANT PROFESSOR IN HISTORY EDUCATION

#### **BEST APPS FOR TEACHERS**

Technology has drastically evolved over just a few years and not only are businesses and companies taking advantage of it, but technology has even increased learnability in both students and teachers. While teachers use tech equipment to easily teach and show students lessons, students can now understand the teachings better visually. And this is just the beginning of technology—it'll evolve to bigger and better outcomes to show students the path to success.

As for the teachers, there are a whole bunch of tools they can use in the classroom as well as right at home. So far, one of the best tools for teachers to use is apps either on their phones or on their tablets. There are so many apps today that help both teachers and students become more organized and teach lessons in a more clear way. The following are the best apps for teachers

#### ClassDojo

ClassDojo is definitely one of the more popular and best apps for teachers in 2018. The app is great for communication for teachers, students, and even parents. The free app can show parents classroom experiences by sending and sharing videos, photos, and even announcements; teachers can also message any of the students' parents.

While this app is perfect for any grade, the app offers so many opportunities for everyone. Students can create their own digital portfolios and share images. Parents can see what their child is learning in the classroom. Teachers can also gain access to their teaching tools such as group maker, timer, the radio, pair share, directions, and more. This app is basically the classroom remote that comes with so many benefits for everyone.

#### **Teacher's Assistant Pro**

In order to keep track of students' actions, behaviors, and achievements in the classroom, Teacher's Assistant Pro can easily let teachers communicate with parents through any mobile device. Seen as the #1 education app to keep track on behavior, the app collects all of the data that you need and once it's time for a conference, the teacher will have all of the information right from the app.

The app allows you to add in the date and time, where it happened, photos, the class period, detailed descriptions, the teacher's actions, and if the parent was notified. The teacher can even include all of the student's information, from their parent's cellphone number to email addresses and other important names. This is a great app for teachers who need to keep tabs on student's behavior.

#### Blackboard

Among the best apps for teachers in 2018, Blackboard is a great, free app that helps all students in the classroom stay informed through updating courses and content, taking assignments and tests from students, grading courses, participation, and other advantages. Teachers can also video chat with students which is perfect for tutoring sessions.

Ideal for online courses, Blackboard gives teachers the chance to start discussions for gaining students' inputs on lesson questions, state announcements like test dates or assignment deadlines, and even give the student's grade through the app. Teachers and students can use this app on either their smartphone or tablet. It's also perfect for managing homework.

#### Virtual Nerd Mobile Math

Math is one of the toughest subjects to teach students, but this free app can easily guide both the teacher and student into the best math-learning experience. Known to be one of the best apps for teachers in 2018, Virtual Nerd Math is a great math app that provides on-the-go access to the app's video library. With interactive tutorials to show math concepts, this is an amazing app to show students math lessons in middle school and even high school.

The app gives great opportunities and tools such as viewing lesson videos, searching up keywords, create a list of favorite videos, and much more. Math doesn't have to be the toughest subject to teach anymore now with the help of Virtual Nerd Math. Let students learn math in a breeze while you don't strain yourself in teaching the lessons.

SR. A. SASIKALA

ASST. PROF. IN EDUCATION

#### WRITING TIPS TO MAKE YOU A BETTER WRITER

## (Smart Idioms)

#### A HOT POTATO

**Meaning:** Speak of an issue (mostly current) which many people are talking about and which is usually dispute

Example of use: I never discuss about anyone's religion, it can be a hot potato.

#### Origin

The term originated in the mid-1800s and is derived from the slightly older term "to drop like a hot potato", meaning "to abandon something or someone quickly". It alludes to the fact that cooked potatoes retain considerable heat because they contain a lot of water.

#### A PENNY FOR YOUR THOUGHTS

**Meaning:** A way of asking what someone is thinking

Example of use:

- "You have been quiet for a while, a penny for your thoughts."
- "You seem pretty serious, a penny for your thoughts."

#### Origin

The phrase is probably older, but first written recordings of it were in the early to mid-1500s.

#### AT THE DROP OF A HAT

**Meaning:** Without any hesitation; instantly.

When you use the expression 'At the Drop of a Hat' you mean that something is happening instantly, without any delay.

Example of use: "We're all packed and ready to go; we can leave at the drop of a hat."

Origin

This phrase probably alludes to signaling the start of a race, fight or other contest by dropping a hat. [Late 1800s]

#### BITE OFF MORE THAN YOU CAN CHEW

*Meaning:* To take on a task that is way too big.

You use the expression 'Bite off More than You Can Chew' to indicate that you've taken on too much.

#### Example of use:

- ✓ "Be careful not to bite off more than you can chew. You're going to have to take a day off sometime!"
- ✓ "I am sure, she is **biting off more than she can chew** by promising to solve the difficult puzzle in few minutes that I couldn't since last three days."

#### Origin

The proverb is supposed to be originated in America and the oldest written records of the phrase can be traced from 1870s. For example in a book named 'Western Wilds, and the Men Who Redeem Them' written by John Hanson Beadle which is originally published in the 1877.

#### A BLESSING IN DISGUISE

*Meaning*: Something good that isn't recognized at first.

The phrase 'A Blessing in Disguise' refers to something that at first appears to be bad or unlucky but is actually good.

**Example of Use:** "My car broke down again, but maybe it was a blessing in disguise; I've been wasting too much time driving around anyway."

Origin

This phrase originated in the mid-1700s. The earliest usage in print was in the 1746 book "Reflections on a Flower-Garden" by James Hervey.

MRS. D. THILAGAVATHI ASSISTANT PROFESSOR IN ENGLISH.

# சொல்லிச் செல்லும் சொல்லடைகள்

# மொழி தப்பினவன் வழி தப்பினவன்

இன்றைய கால மாற்றத்தில் பல்வேறு காரணங்களின் அடிப்படையில் மானுட மதிப்புகள் குறைந்துகொண்டே வருகின்றன. குடும்ப உறவு, சமூகப் பிணைப்பு, வாழ்வியல் நெறிகள் போன்றவற்றின்மீது இருந்த பிடிப்பு, சிறிது சிறதாய்த் தளரத் தொடங்கியிருக்கின்றன. முன்னோர் கூறிய பழிமொழிகளும் மூத்தோரின் அறிவுரைகளும் வேம்பெனக் கசக்கின்றன. தலைமுறை இடைவெளிகள் பெருகி, புரியாத புதிராய்ப் பலரின் பயணமும் நீள்கின்றது. இந்த மாற்றத்தைத் தடுத்து நிறுத்தி, உலகம் போற்ற வாழத் துணிவோம்!

# மூத்தோர் மொழிகள்! – நம் வாழ்வின் முகவரிகள்!

Proverbs and saying passed down through generations are precious heirlooms of wisdom for any society. These proverbs and sayings were not meant to be didactic but to be metaphorical compasses to ensure a harmonious life. The bank of experience, gained by our forefather's blood and sweat through time, shares these proverbs and sayings as anecdotes to guide and map out the route to success in life. While we may not always use these proverbs and sayings regularly we should internalize its deeper meaning, to ensure a peaceful and meaningful life.

- MRS.MANIMEKALAI ASSISTANT PROFESSOR IN TAMIL

### INTERNATIONAL MATHEMATICAL OLYMPIAD (IMO)

Education Olympiads are organized across the world with an aim to bring forth the most gifted minds together to compete in various disciplines. Brilliant students are identified through regional and national competitions, and those who make it to the top are invited for a world-level competition.

One such unique Olympiad is the international mathematical Olympiad (IMO). It is the World Championship Mathematics competition for high school students organized annually. The first IMO was held in Romania in 1959, with only seven participating countries. Since then, it has expanded and today, about 100 countries participate in the annual contest.

In India, the initial phase of the Mathematics Olympiad is conducted through the Regional Mathematical Olympiad (RMO) at 25 centers. An examination for aspiring mathematicians of higher secondary level is held. It consists of six questions, which are to be solved in three hours. Thirty students are shortlisted from each center . These 750 students attend the Indian National Mathematical Olympiad(INMO), which is conducted under the aegis of the national board of higher mathematics(NBHM), in collaboration with the Homi Bhabha center for science education , which is the nodal center . Of these 750 students, 30 are shortlisted to attend a one-month training programme at the Homi Bhabha center for science Education , Mumbai . and then , six students are shortlisted on the basis of a variety of selection assessments. The programe aims at promoting excellence in mathematics among pre-university students.

At the IMO, each day students are given three difficult questions for seven points each, in up to two languages of their choice to be solved within 4 hours 30 minutes daily for two days .The questions are framed by mathematicians of various countries. Obtaining one or two points out of 42 is appreciated by the panel. Bagging seven points for one question is treated as an extraordinary achievement. There have been instances, where in the students have come up with a simpler solution to a question.

In 2016, the 57th IMO was hosted by the international mathematical Olympiad, Hong Kong committee limited, on 11 and 12 July. A total of 608 students from across 100 countries and five continents took part in it. Six students from India participated in the Olympiad. Kapil pause from Goa bagged the silver medal, while the others received bronze medals .It is laudable that none of the participants from India came without a medal.

The 58th IMO was hosted in Rio de janerio, Brazil, from 12 to 23 July 2017. The Republic of Korea was declared as the winner. India ranked 52nd among 111 countries. India bagged 11 gold, 63 silver and 68 bronze medals, and 26 honorable mentions.

The 59th IMO was hosted in Romania from 3 to 14 July 2018. The result will be declared by mid-march 2019. Also the 60th IMO will be held in Bath, United Kingdom in July 2019.



# Logo of the IMO

India has been participating in the IMO since 1989. Any number of attempts can be made in the IMO. Students can start participating in the Olympiad from class IV.

#### POST-SCRIPT

Unfortunately ,even in this age of technology ,there are some parts in of India where the awareness of IMO is negligible .Information about IMO should be disseminated by teachers and schools to students and their parents .Informal interactions in small groups on mathematics ,including cyberspace ,should also be encouraged. Besides, an attempt to open student's minds to the world of mathematics should be made.

L.VINNARASI

**ASST.PROF.IN MATHEMATICS** 

# SECRET OF SCIENCE TEACHER, TO MAKE THE NUMBER OF ACHIEVERS IN CLASSROOM

Success is not dependent on our age, degree, certificate or work experience. Young achievers are who recognizes in life. This achievement helps them to learn real-life lessons quickly and incorporate them in their professional and personal life.

Some examples of young achievers are,

#### 1. Subhendu Kumar Sahu

Subhendu Kumar Sahu, a student of class 8 in Ganjam district of Odisha. He has developed Gift for formers, an innovative science device that helps in sowing, tilling of the soil, a sprinkling of pesticides, cutting and processing of paddy crops.

#### 2. Jeyakumar

Jeyakumar, a class IX student in Sivakasi, wanted to focus on preventing mishaps and subduing fires before they spread. With the help of his science teacher, the teenager developed an inexpensive extinguisher that triggers a water motor when it senses heat. He has earlier worked on developing an LPG gas leak sensor that works on the same principle, which won him national recognition.

#### 3. Tejaswani Priyadarshani

A 14- year old girl from Rourkela Tejaswani Priyadarshani, has come up with an innovative bicycle that propels on air. Without pedals or any use of fossil fuels, the "air bike" can run up to 60 Km on just 10 Kg of compressed air pumped into a cylinder mounted on the bicycle carrier.

#### 4. Priyanka Panda

Her innovation uses a monitor that is set up next to the odometer. This monitor displays a warning message and alerts the driver if he is wasting fuel and contributing to air pollution.

#### 5. Advay Ramesh

Advay Ramesh, a 14 - year - old student from Chennai. His FishErmen Lifeline Terminal (FELT) hand-held terminal uses the Standard Position Services (SPS), an open service without encryption provided by the Indian regional navigation Satellite System to enhance fishermen's safety and productivity at the sea.

6. Angad Daryani Angad Daryani is the young teen who is the creator of India's first very own 3D printer. He is a school dropout. At the age of eight, he builds his own robot, and after that continued hid learning from YouTube

#### 7. Melita Tessy

Melita Tessy is a Chennai girl. She was the best writer. She wrote the book "Battle of the

spheres". It is a book that is full of adventure and gives out a message to be stronger.

Soft Skills are needed first, to understand the science curriculum and concept.

These achievers are created in a different situation, different areas, ideas, motivation, and different interest etc. Science teacher creates such kind of achievers in their classroom in the future. If it can be achieved Science teacher should know and understand the following ideas, tips, and concept.

	Skills objectives are also important for pupil attainment.
11	Skills include critical and creative things as well as Problem Solving.
 and	A scientist uses inquiry methods in selecting and accepting cognitive ends in science lessons units of study.
П	First soft skill is an effort. The effort is more than IQ in each learner.
П	The teacher must stimulate effort within each people.
 ach	Another soft skill, interest in science is poignant. The chances are that pupils will not ieve much unless interest in each lesson and unit of study is promoted.
 kno	Being attentive, the pupil improves in the attitudinal dimension with a desire to increase in wledge and skills
 and	Resilience as a third soft skill. Reading involves breaking code when pursuing the abstract translating it to the concrete.
 sub	Emphasizing soft skills in teaching\ learning situations aids pupils in achieving science ject matter goals. By stressing these soft skills, pupils might well attain more optimally.
	ective science teacher creates an environment in which they and students work together as ve learners. While students are engaged in learning about the natural world and the scientific

o A challenge to teach science is to balance and integrate immediate needs with the intentions of the yearlong framework of goals.

principals needed to understand it. Teachers must have theoretical and practical knowledge and

- o Inquiry into authentic questions generated from student experience is the central strategy of teaching science.
- o At all stages of inquiry teacher guide, focus and encourage student learning

abilities about science, learning and science teaching.

- o Teachers, who are enthusiastic, interested, and who speak of the power and beauty of scientific understanding instills in their students some of those same attitudes.
- o Skilled teachers guide students to understand the purpose of their own learning and to formulate self-assessment strategies.
- o Effective science teaching depends on the availability and organization of materials equipment, media, and technology.
- o The school science program must extend beyond the walls of the school to the resources of the community.
- o Effective teachers design many of the activities for learning science to require group work not as simple as an exercise but as essential to the inquiry.

#### **CONCLUSION**

Finally, the Science teacher shout follows the secret of teaching in their classroom. Definitely the number of young achievers increases in the future world. Every individual student should develop their professional and personal life skill.so the science teacher, Teach scientific ways of thinking. Actively involve students in their own learning. Help students to develop a conceptual framework as well as to develop problem-solving skills. Promote student discussion and group activities. Help students experience science in varied, interesting, and enjoyable ways. Assess student understanding at frequent intervals throughout the learning process.

MISS.C. ILAVARASI

ASST. PROF. IN PHYSICAL SCIENCE

## **BIO-VILLAGES**

Bio-village means a village/territory where community people would live and breathe in nature and foster the bio diversified ecological balance. In this environment, they will practice organic farming, where natural fertilizers and seed could be used.

The aim of Bio village is the problem of hunger and poverty should be tackled with strategies that contributed to the positive development of economy, employment and enterprises. With the good facilities and infrastructure, the goal of driving away hunger could be an easy task in Pondicherry.

The bio village concept was evolved and implemented by the M.S. Swaminathan Research Foundation (MSSRF). The MSSRF introduced this concept a few years ago in 19 villages in the Union Territory of Pondicherry with the support of the United Nations Development Programme (UNDP) and has been a big success. According to Swaminathan, "Bio village denotes a village where human development occupies the pride of place. It is thus a term for human-centred development". In a bio village, the people take decisions. Its activities are market-driven. The concept is sustainable and replicable. He said: "For this concept to be successful, asset creation is important. Community banking is crucial, as is demonstrated by the MSSRF Pondicherry project".

A bio-village not only provides livelihood systems that include technical knowledge and skills, a self-perpetuating system of micro-credit within the community and access to the market, but also makes the villages self-sufficient and human-centric.

#### **FEATURES:**

- i. Water Management: Ensuring protection of water resources
- ii. Emphasis on low input and high value output: Vegetable cultivation, floriculture and maize cultivation. Best utilization of cultivated land, conservation of environment and ecological balance.
- *iii.* Local fishery cultivation, poultry rearing, tree plantation.
- iv. Improving efficiency in livestock management Integrated Dairy
- v. Promotion of vermicompost mushroom cultivation, biogas production and other small activities.

<u>Eco-technology</u>: Involves setting up bio-villages – bio-village paradigm involves sustainable management of natural resources and developing sustainable on-farm and non-farm livelihoods as eco-enterprises managed by self-help groups.

The Bio-village Paradigm is considered as 'Eco-technology in Action', where the sustainability is ensured through appropriate interventions/technology dissemination that is environment friendly and provides opportunities for ensuring livelihood security. It aims at achieving a holistic approach that harmonises the need of the present with the future generation.

It is carried out by various actors according to different situations, capacities and priorities of rural areas and regions in accordance with the principles of sustainable development in which:

- <u>Pro-nature orientation</u> is reflected through ensuring the sustainability of productivity of biophysical resource base and employing environmentally compatible interventions.
- <u>Pro-poor orientation</u> is achieved by employing interventions that improve the livelihood security of the resource poor through empowering them with technology and skills.
- <u>Pro-women orientation</u> is ensured through empowering women with skills and access to credit facilities/ finances and reducing the drudgery of work at home and outside.

The activities are carried out in an adaptive participatory research and development process along with the community, thereby enabling the community to understand the process and potentials of sustainable natural resource management and various livelihood options available in farm and non-farm sectors. The Bio village Programme of the Centre also includes the institutionalisation process to ensure the continuity of the initiatives, undertaken by MSSRF along with the community, with appropriate linkages and flexibility to enable adaptability to changing requirements, thereby making the process relevant and sustainable.

SR.A.IGNACIAMMAL

ASST. PROF. IN BIO-SCIENCE

# **HOPE OF LIFE**

If you can look at the sunset and smile, then you still have hope

If you can find beauty in the colors of a small flower, you still have hope

If you can find pleasure in the movement of a butterfly, you still have hope

If the smile of the child can still warm your heart, you still have hope

If you can see the good in another person, you still have hope

If the sight of a rainbow still makes you stop and stare in wonder, you still have hope

If you meet new people with a trace of excitement and optimism, you still have hope

If the suffering of others still fills you with pain and frustration, you still have hope...

Yes..... Hope, hope, still has hope in life

And reach your goals in life

SR. ANTHARAJAMMA

I B.Ed (ENGLISH)

# **MY SWEET DREAM**

The days without a dream, It's a house without a beam, My face shines with a gleam, No one knows what it seems, I stand and admire what I see, And think beyond how well it will be, My little heart flew away, By the splendid nature, I pass away, I'll cherish my dreams sure a day, And will be merry every day, Believe in yourself, Aspire and achieve your dream.

A.VICTORIYA DEVAKIRUBAI
I B.Ed (ENGLISH)

# **GREEN FOREST**

I walked across an empty land

I knew the pathway was beside my hand,

I felt the earth beneath my feet

Sat by the river and it made me complete.

A. ROSELINE NISHA

I B.Ed (ENGLISH)

# **YOUR BEST**

If you always try your best
Then you'll never have to wonder
About what you could have done
If you'd summoned all your thunder.
And if your best
Was not as good
As you hoped it would be,
You still could say,
'I gave today
All that I had in me.
S. MOUNIKA
I B.Ed (ENGLISH

### **NATURE**

I Live in a world of yellow and Green,

An abundance of colors is rarely seen.

With swirling seas of silver and Gold,

And crystal mountain tops never Foretold.

Sky of amber and clouds of peach,

I picture myself on a pink satin beach.

**A.PONVIZHI** 

I B.Ed (ENGLISH)

### MY LOVE OF NATURE

I love the smell of the ocean, the sound of Waves upon the sand, I love the feel of seashells and how they Look in my hand. And when the sun is gone, I love the moon That shines so brightly, I love the sounds of crickets and other Creatures of the night. So when I lay me down to sleep, I thank The lord above, Of all the things of nature and more, all The things I love L. JOSHNA SALOMI I B.Ed (ENGLISH)

### **MY MOTHER**

The first word we learn is a mummy

Whatever she makes is always yummy

She makes us study day and night

So that we could become smart and bright.

She makes healthy food every day

So that I could grow day by day.

She gives us much advice

By which I would be wise.

K.S. KARTHIGA

I B.Ed (ENGLISH)

#### **UPHOLD ENGLISH PROFICIENCY**

The English language is known worldwide From all languages that were colliding English is known everywhere It is great to use it anywhere.

Upholding English to everyone
Speaking in English is very fun
Don't be shy and show your greatness
Use it when showing competitiveness.

Speaking in English is as good as gold

The language of English we need to uphold

It's very fun when you come to think of it

When you're with your friends who also love it.

When you go to any country

This is the language of everybody

Being expressed in different places

Different accents in a different place.

The English language is my proficiency

Never be shy and express it freely

Just be confident and you'll be okay

Uphold English Proficiency and have a great day.

G. SEETHA LAKSHMI
I B.Ed (ENGLISH)

#### IMPORTANCE OF ENGLISH IN TODAY'S WORLD

Learning English is important and people all over the world decide to study it as a second language. Many countries include English as a second language in their school syllabus and children start learning English at a young age.

- 1. English is the most commonly spoken languages in the world. One out of five people can speak or at least understand English!
- 2. English is the language of science, aviation, computers, diplomacy, and tourism. Knowing English increases your chances of getting a good job in a multinational company within your home country or of finding work abroad.
- 3. English is the official language of 53 countries.
- 4. English is spoken as a first language by around 400 million people around the world.
- 5. English is the language of the media industry. If you speak English, you won't need to rely on translations and subtitles anymore to enjoy your favorite books, songs, films, and TV shows.
- 6. English is also the language of the Internet. Many websites are written in English you will be able to understand them and to take part in forums and discussions.
- 7. English is based on a simple alphabet and it is fair, quick and easy to learn.
- 8. English is not only useful it gives you a lot of satisfaction. Making progress feels great. You will enjoy learning English if you remember that every hour you spend gets you closer to perfection.

P. ROSHMA

I B.Ed (ENGLISH)

### ENJOYABLE ENGLISH LEARNING

You can be very creative when it comes to learning the English language. Nowadays you don't have to limit yourself to reading dry and outdated textbooks, to improve your reading writing and speaking skills. While a good up-to-date English grammar book is important. It's more as a support mechanism to help you as you actively learn English through a variety of other means.

Learning any language should be a fun and enjoyable experience and you should employ many different methods to learn it.

M.ANITHA
I B.Ed (ENGLISH)

#### WHAT DO YOU LEARN IN ENGLISH LITERATURE?

People asked what do you learn in English literature?

A Moment of reflection

I Learn Romance in Age of Wordsworth, which I do every day.

I Learn "Survival" in Canadian literature.

I strive to survive every day.

I Learn "Marginalization" in Human Rights which I experience every day.

I Learn "Materialism" in the Age of Tennyson.

I found it in every person.

I Learn "segregation" in African – American which I undergo every day.

I am not learning English Literature

I Live in English Literature.

R.SAWNDARIYA
I B.Ed (ENGLISH)

### WHAT IS ENGLISH LITERATURE?

Literature refers to writing and considered to be an art form or any single writing deemed to have artistic or intellectual value, often due to deploying language in ways that differ from ordinary usage.

Its Latin root literature / literature (derived itself from littera: letter or handwriting) was used to refer to all written accounts. The concept has changed meaning over time to include texts that are spoken or sung (oral literature), and non-written verbal art forms. Developments in print technology have allowed an ever-growing distribution and proliferation of written works, culminating in electronic literature.

Literature is classified according to whether it is fiction or non-fiction, and whether it is poetry or prose. It can be further distinguished according to major forms such as the novel, short story or drama; and works are often categorized according to historical periods or their adherence to certain aesthetic features or expectations (genre).

M.VIGNASHWARI
I B.Ed (ENGLISH)

**FLYING FISH** 

"English Literature is a flying fish". - EM Foster.

Occasionally we see the beautiful creature the flying fish, which rises out of the water altogether into the air and the sunlight. English literature is a flying fish. It is a sample of the life that goes on day after day beneath the surface; it is proof that beauty and emotion exist in the salt, inhospitable sea.

If you have ever been amazed, intrigued and excited by a novel, a poem, then English Literature is the subject for you. You should also have an interest in reading a wide variety of literature to enjoy and to express your own ideas and have a sound command of written English. You do not need to know very much about flying fish, but you should enjoy the challenge of analyzing highly imaginative metaphors!

L.REMSI RANI
I B.Ed (ENGLISH)

#### PROSE AND ITS KINDS

The prose is the ordinary form of the written (or spoken) language. It does not use any special format such as lists or tables. In writing, it is without special rhythm. It is similar to everyday communication. That is what makes the most important distinction with poetry, and with theatrical works such as plays. The word prose comes from the Latin "prose", which means straightforward. Prose writing is usually adopted for the description of facts or the discussion of whatever one's thoughts are, incorporated in free-flowing speech. Prose generally has no formal structure, like meter or rhyme, that is often found in poetry. Therefore, it is used to describe literature which is non-poetic, and non-theatrical.

There are four types of prose in literature,

- Fictional Prose (Includes novels, novellas, short stories)
- Non-fictional Prose (Includes biographies, essays, journals)
- Heroic Prose (Includes legends, tales)
- Poetry Prose (poetry written in prose instead of using verse but maintaining poetic qualities)

S.H.JASIMA HASMATH

I B.Ed (ENGLISH)

### IMPORTANCE OF ENGLISH

English is an important Language. It is an international language. Most of the people in many countries speak English for communicating with others. English is not being taught as a compulsory subject at the lower primary level. English is everywhere. You can easily access English —language in television, music, magazines ... etc.

Nowadays English has been an important role in our daily life, it is a massive means of communication.

Learning to speak English well may be the best way to improve our lives.

J. DANIA JUDITH
I B.Ed (ENGLISH)

## LIFE

Life is traveled only once

Today's moment becomes

Tomorrow's memory

Enjoy every moment good or bad

Because

"THE GIFT OF LIFE IS LIFE ITSELF"

A.AFRA
I B.Ed (ENGLISH)

### **NATURE**



### **SMILEY-THE LIFE CRACKERS**

- 1. Smile in the mirror. Do that every morning. And you'll start to see a big difference in your life. Yoko Ono
- 2. Smile, it is the key that fits the lock of everybody's heart. Antony J. D' Angelo
- 3. Share your smile with the world. It's a symbol of friendship and peace. Christie Brinkley
- 4. Beauty is power; a smile is its sword. John Ray.
- 5. A warm smile is the universal language of kindness. William Arthur Ward.

S. DEEPA
I B.Ed (ENGLISH)

#### LIST OF LITERARY GENRES

The most enduring genres are those literary forms that were defined and performed by the Ancient Greeks, definitions sharpened by the proscriptions of our earliest literary critics and rhetorical scholars such as Plato, Aristotle, Socrates, Aeschylus, Aspasia, Euripides, and others. The prevailing genres of literary composition in Ancient Greece were all written and constructed to explore cultural, moral, or ethical questions; they were ultimately defined as the genres of epic, tragedy, and comedy. Aristotle's prescriptive analysis of tragedy, for example, as expressed in his Rhetoric and Poetics, saw it as having six parts (music, diction, plot, character, though, and spectacle) working together in particular ways. Thus Aristotle establishes one of the earliest delineations of the elements that define a genre.

Literary genres are often defined by the cultural expectations and needs of a particular historical and cultural moment or place.

The major literary genres defined by topic are:

- > Fantasy
- > Westerns
- ➤ Romance
- > Thriller
- > Mystery
- ➤ Detective story

A. SRI MAHA
I B.Ed (ENGLISH)

#### AMAZING ENGLISH: RULES WE KNOW – BUT DON'T KNOW

why 'tick – tick' does not sound right to your ears?

Ever wondered why we say tick-tock, not tock tick, or ding-dong, not dong-ding; king kong not kong king? Turns out it is one of the unwritten rules of English that native speaker knows without knowing. The rules explain: "If there are three words then the order has to go I, A, O, If there are two words, then first is 'I' and the second is either 'A' or 'O' eg; Mishmash, Chit-chat. There is another unwritten rule at work in the name 'Little Red Riding Hood', say the

"Adjectives in English absolutely have to be in order Opinion-size-age-shape-colour-origin material-purpose noun. Eg: Lovely-big triangular old England whittliles knife if you mean in order to end up with a maniac.

The rule seems inviolable; "All four of a horse's feet makes exactly the same sound. But we always say chip-clop, not clop-clip.

This rule, even has a technical name, if we care to know it the rule of ablaut reduplication sometime life is simpler knowing that we know the rule without knowing it.

Hectic Heteronyms: These are brilliant homonyms or homographs. Homo-same; nyms-sounds are words of like spelling ,but with more than the one meaning and sound.

Do you think language matters? Check out the following

- 1. The bandage was wound around the wound.
- 2. How can I intimate this to my intimate friend?

- 3. The farmers toiled to produce the product.
- 4.A brass color was painted on the head of the brass statue.
- 5. I didn't object to the object which is shown to me.
- 6. To help with planting, the farmer taught his sow to sow.
- 7. When he shot at ,the dove into the bushes.
- 8. I thought it was time to present the present to my friend.
- 9. You are too close to close the door.
- 10. She inclined that not to inclined into this problem.

S.M. DHIWYA
I B.Ed (ENGLISH)

### **SUBTRACTING FROM 1000**

HERE'S A BASIC RULE TO SUBTRACT A LARGE NUMBER FROM 1000

SUBTRACT EVERY NUMBER EXCEPT THE LAST FROM 9 AND SUBTRACT THE FINAL NUMBER FROM 10

#### **EXAMPLE:**

1000 - 556

STEP 1: SUBTRACT 5 FROM 9 = 4

STEP 2: SUBTRACT 5 FROM 9 =4

STEP 3: SUBTRACT 6 FROM 10 =4

THE ANSWER IS 444

D.LESSLY ANNAMAL

I BED (MATHEMATICS)

## **INTERESTING NUMBER**

98765432

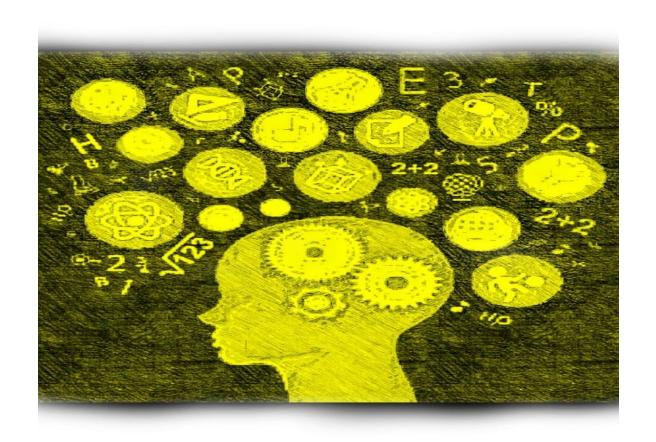
The above numbers. From 9 down to 2, all the digits are in order, when this number is multiplied by 9 get an interesting number

ANS: 88888888

R.DHIVYA

1 BED (MATHEMATICS)

# **BRAINY MATHEMATICS**

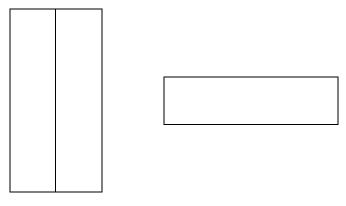


C.EBINOLISHA

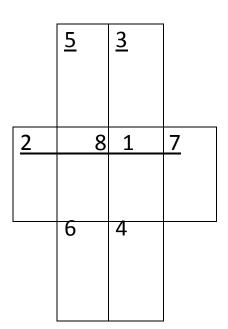
I-B ED (MATHEMATICS)

### **NUMBER PUZZLE**

Fill in the following boxes with numbers 1 to 8(one number in each box) in such a way that no two consecutive numbers are next to each other horizontally ,vertically , or diagonally. Each number can be only once.



Ans:



Ans:	

AMRITHA
I BED (MATHEMATICS)

## **MATHEMATICAL LIFE**

Don't make your life as an imaginary line

Make it as a real line;

Life has many problems

Solve it with suitable theorem;

Time runs fast

There is value for every cost;

Don't circle your mind in an empty cylinder

Fix a target, Project your mind

Your life will be bright.

G.R.GENNIFER
I BED(MATHEMATICS )

## **5** Ways To Love Math

love the way math brings out the inner professor in a teenager

love visualization, love the proofs without words

love biology, physics & music- math binds them all

love the clean divide between true and false

And above all love the silliness of it all

G.JEGRID JOSHIPA
I B.ED MATHEMATICS

#### LIFE IS FOR LISTENING

This is a story from Greece. An orphan boy used to collect twigs from the jungle and sell them in bundles in the town. One day, a passerby stopped by his side and asked the boy, "son, did you tie this bundle yourself?".

"Yes, Sir" the boy replied.

"I sell these bundles every day".

"Show me how you made up the bundle", the man requested.

The boy undid the ropes and arranged the twigs again in front of the stranger. The stranger was amazed at the method the boy used to tie them up so beautifully. He felt the boy's talent should not be wasted.

"Will you come with me?" the man asked. I will see that you go to school and educate yourself. The boy agreed to do so,

Can you guess who this boy was???He was PYTHAGORAS, the famous mathematician and philosopher.

Each one of us has a gift. This boy's gift of being able to make bundles and arrange sticks in a geometric fashion changed his life.

In the same way, if you could develop your talent you can change your life too. Remember not to waste the gifts you have been blessed with. Use them to improve your life and lives of those around you.

Life is for listing. You can only enjoy if you make it meaningful. To make your life more worthwhile and meaningful. Not only do you need to be orderly and discipline. But you also need to love and care for others. This is what gives life its charm.

M.HEMAPRIYA

I B.ED (MATHEMATICS)

#### **POEM ON MATHEMATICS**

Mathematics is full of fun

With so much to learn.

Profits are added

While losses are subtracted

Degrees are multiplied

And the percentage is divided

Geometry is full of mystery

Algebra has a big history

Integers as different as brothers

The lines are parallel

Angles are similar

Maths is necessary for life

Without it, it is difficult to survive.

S.JEMILA DIYOPILA<br/>I-B.ED (MATHEMATICS)

## **GRAPH**

Plot points on the graph

Points on the plane

Points in the space

With axes drawn anywhere

Who has plotted as?

Here and there

Without any education

And without any axis

K. JOSEPHINE KILDA MARY
I. B .ED (MATHEMATICS)





C.CHITHRA
I BED (MATHEMATICS)

## **PUZZLE**

1. Six friends P, Q, R, S, T, and V sitting in a row with north direction .R is between p and T, S

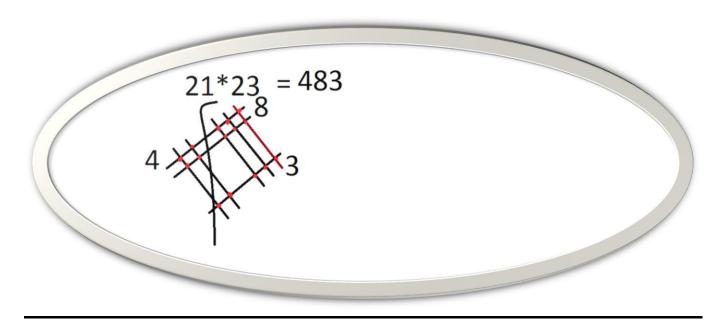
is not an endpoint. Q is the immediate right of T .V is not at the right end.

1.who is the immediate left of R?					
a.T b.P c.T or P					
2. How many persons are in the right of S?					
a.1 b.2 c.4					
3. Who is the left end?					
a.V b.P c.Q					
ANSWER;					
P Q R S T V					
1.ans(b) P sits to the immediate left of R					
2.ans (c) there are 4 persons in the right of S					
3.ans(a) V sits at left end					
LIFE MATHS					
Good thinking take +					
Bad thinking take _					
Knowledge take *					
Time take /					
Happy and sad take =					
A. KARTHIGA					

1.B.ED (MATHEMATICS)

# **MULTIPLICATION USING LINES**

1.



2.

# **MATHEMATICS**

M = MODERN

A =ATTITUDE

T =TIMING

H = HIGH

S =SUPERIOR

S.KRISHNAPRABHA

1.B.ED (MATHEMATICS)



# RAMANUJAN'S MAGIC SQUARE

22	12	18	87
88	17	9	25
10	24	89	16
19	86	23	11

- ➤ Sum of numbers of any column=139
- ➤ Sum of diagonal elements=139
- $\triangleright$  Sum of any (2\*2) square=139

What an interesting square by Srinivasaramanujan!

R.MAHESHWARI

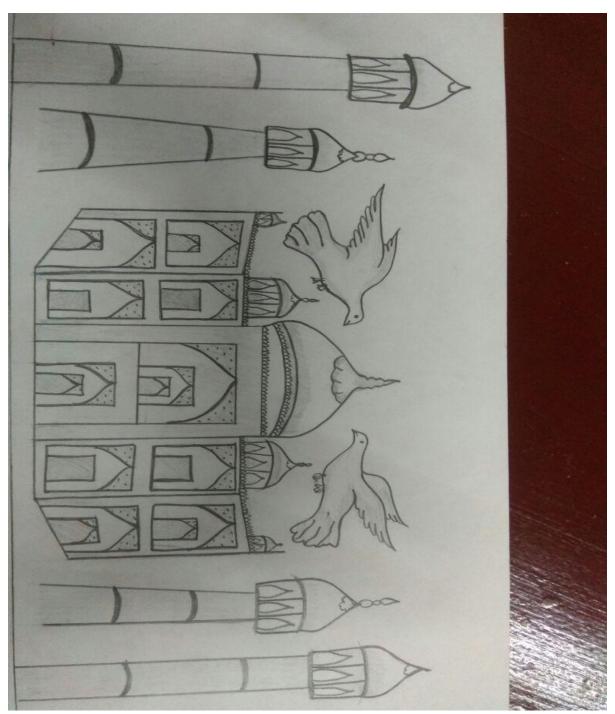
I-B.ED(MATHEMATICS)

# கணிதம்

வாழ்க்கை என்பது **வட்டம்** பிறப்பில் துவங்கி இறப்பில் முடியும் வாழ்வில் சாதிக்க பல கோணங்கள் உண்டு அவற்றைக் கண்டு பிடிக்க பல வழிகளும் உண்டு. சாதிக்க வேண்டுமானால் முதலில் அறிவைக் கூட்டு அறியாமையைக் **கழி** அன்பை பெருக்கி வாழ்க்கையை **வகுத்துப்பார்** வருகின்ற ஈவு உன் வாழ்க்கை கணக்கின் தீர்வு தோல்வி என்பது வாழ்வின் ஒரு **பகுதி** தான் வெற்றி என்பது **தொகுதி**யாகும் போது வாழ்க்கை **கணக்கு** சரியாகிவிடும் சரியாக மட்டுமல்ல 100 முறை உன் வாழ்க்கை சாதனையாகிவிடும்.

S.MARTHAL

I B.ED (MATHEMATICS).



J. ABITHA MARIA IDHAYA

I B.ED( MATHEMATICS)

# **ADDITION**

Add good friends and

Add good thoughts

Add good words and
Add good deeds
Add the joy of life
Add every added moment.

M.MUTHU MEENA
I B.ED (MATHEMATICS.)

## **MULTIPLICATION**

Be not afraid

For my name is one

You remain untouched

In the war called multiplication

Between you and me.

A. SAVARI PRIYA
I B.ED(MATHEMATICS)

## **MIRACLE MATHS**

Numbers - God's miracle creation in the world;

Nature- Mathematics doesn't leave nature also;

Logic- Mathematics led our life logically;

Add - Add the good character and knowledge;

Subtract - Subtract the negative thoughts;

Multiply - Multiply your achievements;

Divide - Divide the obstacles;

Integrate - Integrate your ability;

Differentiate - Differentiate your difficulties;

Square - Square your happiness;

Eliminate - Eliminate your sorrow;

Happiness - Happiness multiplies when you divide it;

Hope - Mathematics gives us hope;

Proved - Mathematics proved every life problem with solution.

T.SELVALAKSHMI

I-B.ED(MATHEMATICS)



## ARTICLE OF CHEMISTRY

## (HUMAN BEINGS)

Reaction not only for Chemistry subject, It is also included our Daily life.

Acidic, Basic, Neutral is an important source of chemistry,

That way Affection, Behavior, neutrality is very important habits of a human being's life.

Some human beings act like a Carbon-dioxide because of EXHALED our Bad thoughts.

OXYGEN is the best comparison of human beings because of INHALED our Good thoughts.

Sometimes young stars are drinking ALCOHOL like as REACTIVE METAL. (It's not good for health)

Pure gold (Au) not using for making jewelry

Adding some impurities to get marvelous jewels.

Compared to LIFE some sad days are the best Experience to learn life.

In chemistry Practical some Experiment isn't giving an exact answer.

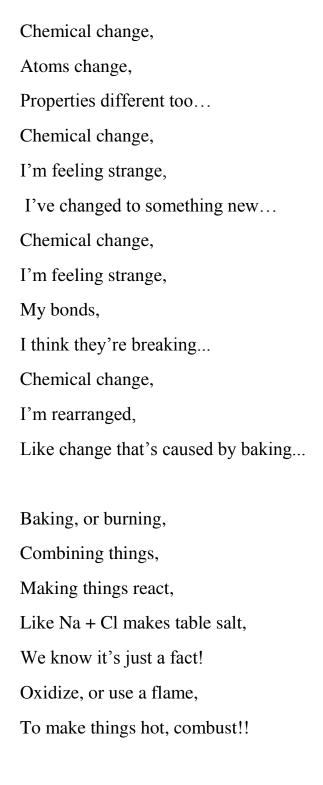
Compared to Life some, time does not give an answer for Particular time.

Act like a Noble Gases for waiting for a concordant value.

S.BALKES BAJILA

I BED (PHYSICAL SCIENCE)

## **CHEMICAL CHANGE**



Iron tends to oxidize,

And makes a thing called rust...

Chemical change,

I'm feeling strange,

I'm different, how about you?

Chemical change,

Changes things,

And gives us something new!

M.DEEPA
I B ED (PHYSICAL SCIENCE)

#### **HIGGS BOSON**

The *Higgs boson* is an elementary particle in the standard model of particle physics, produced by the quantum excitation of the Higgs field, one of the fields in particle physics theory. It is named after physicist *Peter Higgs*, who in along with five other scientists, proposed the mechanism which suggested the existence of such a particle. Its existence was confirmed in *2012* by the ATLAS and CMS collaborations based on collisions in the *Large Harden Collider (LHC)* at CERN. The Higgs boson also known by its nick names the "God particle". It is the most powerful particle accelerator on the planet. This particle helps give mass to all elementary particles that have mass, such as electrons and protons. On December 10, 2013, two of the physicists, *Peter Higgs* and *Francios Englert*, were awarded the **Nobel Prize** in physics for their theoretical predictions.

#### THE STANDARD MODEL:

Physicists explain the properties of forces between elementary particle of in terms of the *Standard model*- a widely accepted framework for understanding almost everything in the known universe, other than gravity. In this model, the fundamental forces in nature arise from the properties of our universe called gauge invariance and symmetries. The force is transmitted by particle knows as **gauge bosons**.

In the Standard model, the Higgs particle is a boson with *spin zero*, no electric charge and no color charge. It is also very unstable, decaying into other particles almost immediately. The Higgs field is a scalar field, with two neutral and two electrically charged components that from a complex doublet of the weak isospin

symmetry. The Higgs field has a "Mexican hat-shaped" potential. In its ground state, this causes the field to have a nonzero value everywhere, and as a result below a very high energy it breaks the weak isospin symmetry of the electroweak interaction. When this happens, three components of the Higgs field are "absorbed" by the SU2 and U 1 gauge bosons to become the longitudinal components of the non-massive W and Z bosons of the weak force. The remaining electrically neutral component either manifests as a Higgs particle, or may couple separately to other particle known as fermions causing these to acquire mass as well.

Some of the particles like proton and neutrons have mass. Others like protons do not. The God particle believed to be the particle which gives mass to matter. The researches calculations revealed that when the space, time greatly curved, the Higgs boson increases in mass. This would have also raised the amount of energy needed to make Higgs bosons attract each other, preventing any instability that might have collapsed in the early universe.

I.LIZY MARY,
I BED (PHYSICAL SCIENCE)

## THE EARTH DAY

Our Earth is special, there is just one.

It gives soil, water and Sun.

People and animals share the land.

Let's all lend a helping hand.

You can save water and plant a tree.

Make a better home for you and me.

Recycle things don't throw away.

Make every day an Earth day....

J.MARY CRACENCIA,
I BED(PHYSICAL SCIENCE)

# **GLOBAL WARMING**



SHALINI PRIYA
I BED (PHYSICAL SCIENCE)

## **COSMIC GALL**

Neutrinos they are very small,

They have no charge and have no mass

And do not interact at all.

The Earth is just a silly ball

To them, through which they simply pass.

Like dustmaids down a drafty hall

Or photons through a sheet of glass.

cold-shoulder steel and sounding brass,

Insult the stallion in his stall,

And painless guillotines, they fall

Down through our heads into the grass.

At night, they enter at Nepal

And pierce the lover and his lass

From underneath the bed-you call

It wonderful; I call it crass

But it is a cosmic gall

N. NAGADURGA DEVI 1B.ED(PHYSICAL SCIENCE)

#### **BLACK HOLE**

A black hole passed by my window today,
Its ergosphere twisting time for you I say,
It's just because space-time is funny that way,
Yesterday now in the future to play.

Another day's wasted energy is spent,

Yesterday's history must have got up and went,

Riding on the time line's entropy train,

Confusing itself, it's hard to explain.

It's the magic inside the time machine that lurks,

It's the entropy wound mainspring driving its clockwork,

Never speeds up ,nor ever slows down,

Just depends on whose clock you're standing around

Albert's relativity points to the difference between the two,

The faster one runs slower relative to you,

Because we're in the space time vector,

Velocity thieves are the time deflectors.

But only if we're standing on this slice of time,
Stacked from the past into the future sublimes,
One day at a time give or take a billion years,
Running away from the Dark Mother's tears.

She watches broken hearted as her children disappear Galaxies and stars flung away by gravities' gears,

Never to be seen again as they say,

Into the future from this very day.

Gravity and Dark Energy's price they must pay,
Because space-time is funny that way,
And I'm peculiar as some might say,
A black hole passed by my window today.

K .NITHYA
I B.ED (PHYSICAL SCIENCE)

## **PHOTON**

I walked amongst photon's of light.

Photons who are unemployed

But keen, hardworking, bright

We'd like you to be part

A brand new ray of light.

Photons which constitute a ray of light

Behave like intelligent human beings

Out of all possible curves

They always select the one

Most quickly to their goal.

You have to be a lightweight

Move quickly, still be calm

You must be an optimist

To keep your sparkle on.

After you have left the sun

Aim straight for the earth's blue sky

If the photon job's for you

We'd like you to apply.

R.SATHYA
I BED(PHYSICAL SCIENCE)

## **CLICK CHEMISTRY**

In chemical synthesis, "click chemistry" is a method of biocompatible small molecule reaction, for attaching a **probe** or **substrate** of interest to a specific biomolecule, a process is called **bioconjuction.**The use of 1,3-dipolar cycloaddition reactions between azides and alkynes (click chemistry), also termed the sharpless "click" reaction, has aroused much interest among researchers because of its remarkable features such as nearly quantitative yields, mild reaction conditions, broad tolerance toward functional groups, low susceptibility to side reactions, and simple product isolation. And it has been extremely successful as a versatile synthetic tool to construct novel polymeric systems varying from block copolymers, star polymers, dendrimers, to complex macromolecular structures. However, the new formed triazole ring during the click chemistry reaction were nearly ignored, and their possible functions attract less attention.

On the other hand, the development of organic second-order nonlinear optical (NLO) materials is motivated by the promising of performance and cost improvements related to **telecommunications**, **computing**, **embedded network sensing** and many other applications. However, the utilization of click chemistryfor the construction of NLO materials with dendritic structure is still very scarce, and there are no reports concerning the NLO dendrimers, no matter the synthetic convenience brought by the click chemistry proved in other polymeric systems and the largely enhanced NLO effect resulted from the cone shape of

dendrimers, possibly due to the synthesis difficulty or lack of a rational synthetic approach.

The commercial potential of click chemistry is great. They are

- ➤ Modification of natural products and pharmaceuticals.
- > Drug discovery.
- > Material science.
- ➤ Nano technology.

Surface chemistry, etc.

M. RAJALAKSHMI,
I B.ED (PHYSICAL SCIENCE)

## **Biography - Stephen Hawking**

## **Biography:**

- Occupation: Scientist and astrophysicist
- Born: January 8, 1942
- Best known for: Hawking radiation and the book A
   Brief History of Time

## **Early Life:**

Stephen Hawking was born in Oxford, England on January 8, 1942. He grew up in a highly educated family. Both of his parents had attended Oxford University and his father, Frank, was a medical researcher.

Stephen enjoyed math and science in school where he earned the nickname "Einstein." He wanted to study math at university but Oxford didn't have a math degree at the time so he chose physics and chemistry instead. Stephen found college coursework to be very easy. He enjoyed being a member of the school's boat club as well as classical music. After graduation, he went to Cambridge to study for his PhD.

## Diagnosed with ALS

While Hawking was working on his PhD at Cambridge University; he began to have health issues. His speech became slurred and he became very clumsy, often dropping items or falling for no reason. After going through a series of tests, doctors discovered that Hawking had a disease called ALS (also called Lou Gehrig's disease). At the time, the doctors said he only had a few years to live.



Hawking meets President Obama by Pete Souza

## **Overcoming ALS**

Although Hawking was initially depressed over his diagnosis; he decided that there were things he wanted to accomplish with his life. He began to study and work harder than ever before. He wanted to earn his PhD before he died. Around the same time, he met and fell in love with a girl named Jane Wilde. Between his work and Jane, Hawking had a reason to live.

Despite the initial grim diagnosis from his doctors, Hawking has lived a full and productive life with the help of science and modern medicine. Although he is confined to a wheelchair and cannot talk, he can communicate using a touch pad computer and a voice synthesizer **Black Hole and Hawking Radiation** Stephen spent much of his academic work researching black holes and space-time theories. He wrote many important papers on the subject and became a noted expert on relativity and black holes. Perhaps his most famous theory was one that demonstrated that black holes emit some radiation .Prior to this it was thought that black holes could not get smaller because nothing could escape their enormous gravity. This radiation from black holes has become known as Hawking Radiation.

Stephen also enjoyed writing books. In 1988 he published A Brief History in Time. This book covered modern subjects on cosmology ,such as the big bang and

black holes in terms that could be understood by the average reader. The book became very popular selling millions of copies and remaining on the London Sunday Times best-seller list for four years. He has since written many more books, including A Briefer History in Time, On the Shoulders of Giants, and The Universe in a Nutshell.



Hawking during a zero gravity test flight - Photo by Jim Campbell

## **Interesting Facts about Stephen Hawking**

- He was born on the 300th anniversary of the death of the famous scientist Galileo
- He has been married twice and has three children.
- Stephen has been on several TV shows including The Simpsons and the Big Bang Theory.
- The book A Brief History of Time only has one equation, Einstein's famous  $E = mc^2$ .
- Hawking has co-written several children's books with his daughter Lucy including George's Cosmic Treasure Hunt and George and the Big Bang.
- He received the Presidential Medal of Freedom in 2009.
- He hopes to travel to space one day and has trained with NASA on their zero gravity aircraft

M.PRIYANKA

1 BED( PHYSICALSCIENCE)

# **AURORAS**

Heavenly dancers

Grace the sky
Beautiful colours
Way up the higher
Ribbons of green
With the pink slashes
Rivers of purple
With orange splashes
A breathtaking sight
That will blow your mind
Nothing as spectacular
Will you ever find
Flares of green
Of purple and blues
Array of hues
They flash through the sky
Like the ribbons of light.

**G.SUPRIYA** 

I BED PHYSICAL SCIENCE

# SCIENTIFIC DISCOVERIES AND INVENTIONS OF 21<sup>ST</sup> CENTURY

#### EVIDENCE OF WATER ON MARS

The National Aeronautics and space Administration confirmed last September 2015 that there is evidence proving the EXISTENCE OF LIQUID WATER IN MARS. Using the imaging spectrometer of NASA's Mars Reconnaissance orbiter (MRO), scientists detected hydrated salts in different locations on Mars. During the warm season, the hydrated salts darken and flow down steep. However, they fade in cooler seasons. The detection of hydrated salts means that water plays a vital role in their formation.

#### WATER AS FUEL

German clean tech company has developed a futuristic machine that coverts water into fuel. Through power-to-liquid Technology, they can convert water and carbon dioxide into liquid hydrocarbons which take the form of synthetic diesel, petrol, and kerosene. This technology was based on Fisher-Tropsch process and solid oxide cells (SQECs) which converts electricity to steam. In 2017, Joint Center for Artificial Photosynthesis (JCAP) and Berkeley Lab's Materials Project also DEVISED A TECNOLOGY THAT TURNS SUNLIGHT, WATER, AND CARBON DIOXIDE INTO FUEL which can be a viable source of power, replacing coal, oil and other fossil fuels.

#### **FACE TRANSPLANTS**

A face transplant is a medical procedure that replaces a person's face using the tissues of a dead person. In 2005, Isabelle Diorite of France was the first person to have partial face transplant while the first full face transplant happened in Spain in 2010. Face transplants have been popularly carried out in the United States, Spain, France and Turkey. This is applicable for people with birth defects or disfigures caused by burns, disease, and trauma.

## **CONCLUSION**

The Stem Cell research has paved the way to greater access to organs, instead of waiting for donors or taking harsh medications. Scientists from Massachusetts General Hospital and Harvard Medical School have discovered how to regenerate the function of human heart tissue through adult skin cells. Through stem cells, humans can grow another organ. This is associated with the regerative nature of living organism. Recently, various researches all around the world enables GROWING FALLOPIAN TUBES, HEARTS, BRAIN, LUNG, AND KIDNEY, among others through stem cells.

B.THANGA MEENA
I B.ED (PHYSICAL SCIENCE)

# PHYSICS WORD LIST WITH USAGE

S.No	Word List	Usage		
1.	Ammeter	Used to measure current		
2. Battery Used to stores chemical energy and makes it available in an electrical form				
3.				
4.	Diode	Used in semi – conductor device		
5.	<b>E</b> lectrode	Used to make contact with a non – metallic part of a circuit		
6.	<b>F</b> ilter	Used to remove unwanted signal		
7.	Ground	Used to provide a reference voltage level		
8.	Heat	Used for all aspects of life		
9.	Inductor	Used to protect from the dangerous effects of electricity flowing through a conductor		
10.	Joule	Used to measure energy ,energy or work		
11.	Kilowatt	Used to measure power		
12.	Loadstone	Used as a magnet		
13.	Mass	Used as a basis of reference for many physical measurements		
14.	Neutrino	Used to study neutrino particles		
15.	Ohm	Used to measure the electrical resistance		
16.	Power	Used to measure electrical energy per unit time		
17.	Quantity	Using numbers the physical quantity measured		
18.	Resistor	Used to reduce current flow and divide voltage		
19.	Switch	Used for making and breaking electric current through the circuit		
20.	<b>Thermistor</b>	Used specific type of resistor in sensors to help regulate cold and heat		
21.	Ultraviolet	Used by doctors to treat vitamin D deficiency		
22.	Vacuum	Used in incandescent light bulb to protect the filament from chemical degradation		
23.	Wire	Used for transmission of electricity or electrical signals		
24.	X - ray	Used for medical imaging and treating cancer		
25.	Young's	Mechanical property and used to measure the stiffness of a solid material		
	Modulus			
26.	Zener Diode	Widely used in electronic equipment		

A.GNANA MARY

I BED (PHYSICAL SCIENCE)

## SONNET—TO SCIENCE

Science! true daughter of Old Time thou art!

Who alterest all things with thy peering eyes.

Why preyest thou thus upon the poet's heart,

Vulture, whose wings are dull realities?

How should he love thee? or how deem thee wise,

Who wouldst not leave him in his wandering

To seek for treasure in the jewelled skies,

Albeit he soared with an undaunted wing?

Hast thou not dragged Diana from her car,

And driven the Hamadryad from the wood

To seek a shelter in some happier star?

Hast thou not torn the Naiad from her flood,

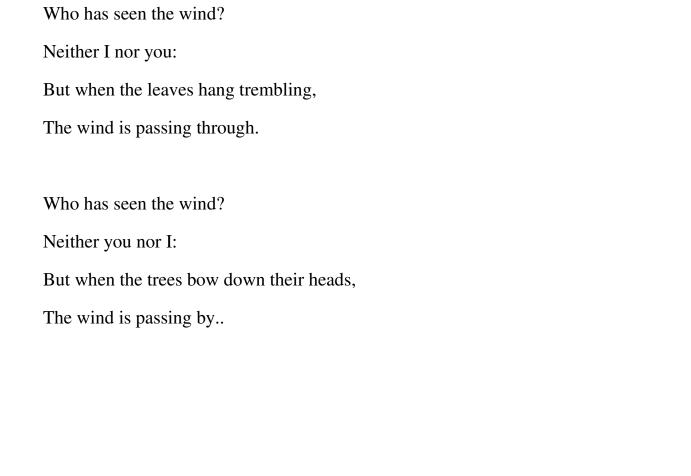
The Elfin from the green grass, and from me

The summer dream beneath the tamarind tree?

SHARMILA

I.BED (PHYSICAL SCIENCE)

## **WIND**



S. SUJITHA RAJAM

I.BED (PHYSICAL SCIENCE)

## DREAMING AT THE SPEED OF LIGHT

Seen from that famous ray of light

Discharging from the town hall over

On the last stroke of noon,

The hands would stand forever at that hour

As though the holocaust of blinding white

That set it all in train,

When present, past and future were triune,

The endless now on which the blessed take flight.

The falling autumn leaves would stall

Above the lawn, their futile red

A stationary fire;

The dog erupting from the pond would spread

In hanging glints its diamante shawl

Of shaken spray midair;

The blue arc of the wave would climb no higher,

A gauze of glare

And water that would neither break nor sprawl.

And as that woman turned her head,

The streaming ripples of her hair

A painted bandrole

Impastoed on the wind, she'd be aware

At once of all the living and the dead

And those whose lives would come

Embodied round her, bodying the whole

Continuum

Of all they had imagined and had said.

And every thought would undergo

This rallentando, every word

Would grind down to a halt

Midsyllable, interminably heard,

But charged with full intention even so,

And purity of tone,

Free from distortion and for none to fault,

None to condone,

A knowledge only for the blessed to know.

M.MICHLINE SANTHIYA

I B.ED (PHYSICAL SCIENCE)

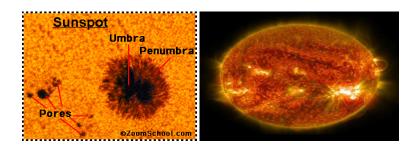
## SUN'S DUTIES AND RESPONSIBILITY

Astronomy, usually considered as the oldest observational science, can also claim to be the youngest of the modern scientific discipline. Astronomy includes the study of the path of the sun, the moon, the planets, the comets etc.., in space and their position with respect to the star. In this article we will discuss about the sun and its activity.

The sun is the largest object in our solar system and contains approximately 99.8% of the solar system mass. The sun is an average, middle aged, main sequence star belonging to the spectral class G2. The surface temperature of the sun is approximately 5,778 K. It is a population 1 star, and it has a rich metal content. The solar atmosphere is broadly divided into the photosphere, chromosphere, and corona. The important photosphere features: sunspots, faculae, granules and super granules. The important chromosphere features: Filaments, plages, prominence and spicule.

Sunspots were first observed by G.Galileo in 1610with his newly discovered telescope. Sunspots are the most prominent magnetic feature on the solar surface. A developed sunspot consists of two well defined regions – the dark central region called umbra which is surrounded by the relatively lighter regions called penumbra. Sunspots usually come in groups with two sets of spots. One set will have positive or north magnetic field other set will have negative or south magnetic field. These sets of north-south magnetic field sunspots are usually oriented east to west. In 1843, the German chemist and amateur astronomer Heinrich Schwa be

discovered a fairly regular cycle of changes in the number of sunspot and this cycle last about 11 years. This is called solar cycle. By plotting the position of the sunspots versus time the so called butterfly diagram.



sunspot

solar flare

#### **CONCLUSION**

Solar flares are the most energetic phenomena of highly transient nature occurring in the sun. The origin of the solar flare may be closely related with instability that is associated with twisting of sunspots field lined in the chromosphere and the lower corona. Flares are classified according to their brightness and the area covered by the sunspot.

Solar flares produce x-rays which affect earth's atmosphere —may cause radio blackouts. High energy charged particles may reach earth and affect satellites, communication technology, and power system.

M.SHALINIPRIYA

I BED ( PHYSICAL SCIENCE)

#### ORGAN TRANSPLANTATION

Organ transplantation is a medical procedure in which an organ is removed from one body and placed in the body of a recipient, to replace a damaged or missing organ. The donor and recipient may be at the same location, or organs may be transported from a donor site to another location.

## Types of transplant

- 1. <u>Autograft</u>: Autografts are the transplant of tissue to the same person.
- 2. <u>Allograft and allotransplantation:</u> An allograft is a transplant of an organ or tissue between two genetically non-identical members of the same species. Most human tissue and organ transplants are allografts.
- 3. <u>Isograft</u>: A subset of allografts in which organs or tissues are transplanted from a donor to a genetically identical recipient (such as an identical twin). Isografts are differentiated from other types of transplants because while they are anatomically identical to allografts, they do not trigger an immune response.
- 4. Xenograft and xenotransplantation: A transplant of organs or tissue from one species to another. An example is porcine heart valve transplant, which is quite common and successful.
- 5.<u>ABO-incompatible transplants:</u>Because very young children (generally under 12 months, but often as old as 24 months) do not have a well-developed immune system,<sup>[16]</sup> it is possible for them to receive organs from otherwise incompatible donors. This is known as ABO-incompatible (ABOi) transplantation.
- 6.<u>Domino transplants</u>: In people with <u>cystic fibrosis</u> (CF), where both lungs need to be replaced, it is a technically easier operation with a higher rate of success to replace both the heart and lungs of the recipient with those of the donor.

## Organs and tissues transplanted

CHEST	ABDOMEN	TISSUES, CELLS AND FLUIDS
Heart (deceased-donor only)     Lung (deceased-donor and living-related lung transplantation)     Heart/Lung (deceased-donor and domino transplant)	<ul> <li><u>Kidney</u> (deceased-donor and living-donor)</li> <li><u>Liver</u> (deceased-donor and living-donor)</li> <li><u>Pancreas</u> (deceased-donor only)</li> <li><u>Intestine</u> (deceased-donor and living-donor)</li> <li><u>Stomach</u> (deceased-donor and living-donor)</li> <li><u>Testis<sup>[26]</sup></u> (deceased-donor only)</li> <li><u>Penis</u> (deceased-donor only)</li> </ul>	<ul> <li>Hand (deceased-donor only), see the first recipient Clint Hallam</li> <li>Cornea (deceased-donor only) see the ophthalmologist Eduard Zirm</li> <li>Skin, including face replant (autograft) and face transplant (extremely rare)</li> <li>Islets of Langerhans (pancreas islet cells) (deceased-donor and living-donor)</li> <li>Bone marrow/Adult stem cell (living-donor and autograft)</li> <li>Blood transfusion/Blood Parts Transfusion (living-donor and autograft)</li> <li>Blood Vessels (autograft and deceased-donor)</li> <li>Heart Valve (deceased-donor and xenograft [porcine/bovine])</li> <li>Bone (deceased-donor)</li> <li>Bone (deceased-donor)</li> </ul>

"The Measurement of life is not its duration, but its donation. Live life and give life through Organ donation".

N.JOTHI

I BED(BIOLOGICAL SCIENCE)

# BIOLOGY SCIENTIST NAMES AND THEIR INVENTIONS

- 1. Anthrax vaccine Pasteur.
- 2. Binomical nomenclature Carl Linnaeus.
- 3. Bacteria Antony Van Leeuwenhoek.
- 4. Cell Robert Hooke.
- 5. Cell Theory Schleiden & Schwann.
- 6. Chromosomes Hofmeister.
- 7. Chloroplast Schimper.
- 8. DNA James Watson & Francis Crick.
- 9. Enzyme Anselme Payen.
- 10. Hormone William Bayliss.

M.NAGA VENI.

I BED( BIOLOGICAL SCIENCE.)

#### WHY DO WE NEED VITAMIN D

If you are not getting enough vitamin D yourself, than it is very important to give your baby a liquid vitamin D supplement drop.

#### PRAGNANCY:

Mothers need enough vitamin D for both yourself and your developing or recently born infants for :

Uncomplicated pregnancy

Developed immune system

#### **INFANTS:**

Your baby's bone can become soft are more likely to break. Importance of vitamin D for infants:

Strong, healthy bones

Developed immune system

#### CHILDREN:

Importance of vitamin D for children:

Strong teeth

Protection from ear infection

#### ADULT:

Importance of vitamin D to Adult:

Support the strong immune system

Help to regulate blood pressure

#### **ELDRELY**:

Importance of vitamin D to ELDRELY:

Maintain cognitive function, reduce fractures

A.GNANA JENISHA I B.ED (BIO-SCIENCE)

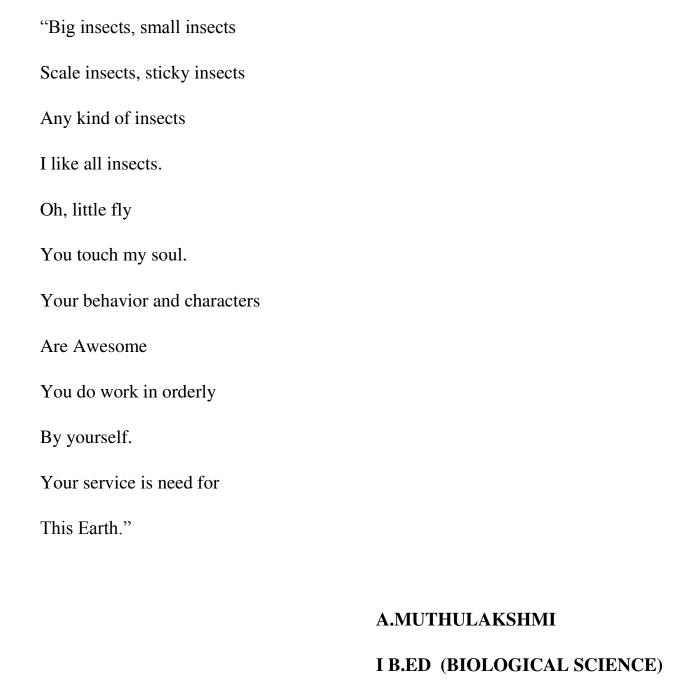
## **SCIENCE - POEM**

Everything works Because of science Even your old Kitchen appliance What about your Mom's car? With out science It wouldn't go far With science we could make, A computer or phone If you want a train Just ask for a clone Science will explain, Nature and trees, It's also used, To find cures for disease Science is cool The evidence is clear, Its so much fun

Enjoy it my dear

M.ATHIRA
I B.ED(BIOLOGICAL SCIENCE

## MY LOVABLE INSECT



## IMPORTANCE OF VACCINE

- ❖ Parents want to do everything possible to make sure their children are healthy and protected from preventable diseases.
- ❖ Edward Jenner is considered the founder of vaccinology in the year 1798; the first small pox vaccine was developed.
- ❖ Vaccination protects children from serious illness can include amputation of an arm or legs, paralysis of limbs, hearing loss, convulsions, brain damage and death.
- Vaccine preventable diseases such as measles, Brain fever, Mumps and Whooping cough.
- ❖ Immunization can save your family time and money.
- ❖ Immunization protects future generation.
- ❖ Vaccination is safe and effective .All vaccines undergo long and careful review by scientists, doctors and the government to make sure they are safe.
- ❖ Vaccination protects others you care about, including family members, friends and grandparents.
- ❖ Immunization can save your family time and money it also protects our future generations.

**R.MAREESWARI** 

I B.ED (BIOLOGICAL SCIENCE)

#### TREE IS A GOOD TEACHER

T-Try to get success

R-responsibility

E-eligible for the society

E-produce energy to all

We are all well known about the uses of tree. Trees is only not a useful thing, it is also a good teacher to human being. It teach lesson through their parts. We see the lesson,

LEAF REPRESENT UNITY OF FAMILY

STEM REPRESENT THE STRENGTH OF THE FAMILY

ROOT REPRESENTS THE SHARING IN FAMILY

FRUIT REPRESENT THE GOOD RELATION WITH OTHERS.

So, unity, sharing, and strength these three qualities make a relationship perfect. Trees have no feelings but it give respect to the relationship in man and their selves.

"TREE DOES NOT GIVE ONLY FRUIT, FOOD etc., IT TEACHES GOOD CHARACTER ALSO"

M. SATHYA PRIYA
I B.ED (BIOLOGICAL SCIENCE

## IF THE BEATLES WERE COMPUTER GEEKS

## Yesterday,

All those backups seemed a waste of pay.

Now my database has gone away.

Oh I believe in yesterday.

Suddenly,

There's not half the files there used to be,

And there's a milestone hanging over me.

The system crashed so suddenly.

I pushed something wrong

What it was I could not say.

None all my data's gone

And I along for yesterday -ay-ay-ay.

# Yesterday,

The need for back-ups seemed so far away.

I knew my data was all here to

Stay,

Now I believes in yesterday.

T.KALPANA

IB.ED (COMPUTER SCIENCE)

## WRITE IN C PROGRAM

#### Write in c

To the tune of "let it be"

When I find my codes in tons of trouble,

Friends and colleagues come to me,

Speaking words of wisdom:

#### Write in c.

As the deadline fast approaches,

And bugs are all that I can see,

Somewhere, someone whispers:

Write in c.

Write in c, Write in c,

Write in c, oh write in c.

LOGO's dead and buried,

#### Write in c.

I used to write a lot of FORTRAN

For science it worked flawlessly.

Try using it for graphics!

#### Write in c.

If you've just spent nearly thirty hours,

Debugging some assembly,

Soon you will be glad to

Write in c.

Write in c, Write in c,

Write in c. yeah, Write in c.

BASIC's not the answer.

Write in c.

Write in c, Write in c

Write in c, oh, Write in c.

Pascal won't quite cut it.

Write in c.

S. PRISCILLA RUTH
I B.ED (COMPUTER SCIENCE)

# COMPUTER KNOWLEDGE: IMPORTANT LIST OF FOUNDERS/INVENTORS

- C—Dennis Ritchie
- C++ -- Bjarne Stroustrup
- JAVA -- James Gosling
- Javascript Brendan Eich
- COBOL Grace Murray Hopper
- BASIC John G. Kemeny and Thomas E. Kurtz
- FORTRAN John Backus
- Algorithm Alkhwarizmi
- DOS Tim Paterson
- Linux OS Linus Torvalds
- Unix Dennis Ritchie
- Windows Bill Gates
- Oracle Ed Oates, Larry Ellison, Bob Miner
- Microsoft Paul Allen and Bill Gates
- IBM Thomas J. Watson
- Yahoo Jerry Yang, David Filo
- Google Larry Page, Sergey Brin
- Gmail Paul Buchheit
- WWW Tim Berners-Lee
- RDBMS Edgar F. Codd
- Mouse Douglas Engelbart
- ENIAC, UNIVAC John Mauchly
- Father of computer and Artificial Intelligence Alan Turing
- Facebook Mark Elliot Zuckerberg
- Twitter Jack Dorsey, Evan Williams, Biz Stone
- WhatsApp Jan Koum and Brian Acton

T. SHANMUGA PRIYA
I B.ED (COMPUTER SCIENCE)

## **MY COMPUTER**

My computer has a language That is foreign to me It speaks of RAM and Gigabytes And what could ROM be!

I don't understand the windows My computer says are three Not the Gem clip at the side of my page With eyes that blink and stare!

I don't understand the cures That maintenance wizard do It's called defragmenter, span disk, And virus cleaning too!

Yet, computer and I work hand and eye With a mouse to translate
The tasks that I want it to do
It's called defragmenter, span disk,

Yet, computer and I work hand and eye With a mouse to translate
The tasks that I want it to do
While it points out my mistakes!

MRS.SIVARANJINI
I B.ED (COMPUTER SCIENCE)

# **COMPUTER**

COMPUTER IS A LANGUAGE
LANGUAGE IS SIMPLE LEARNING
THESE LANGUAGE ONLY USED
FOR COMPUTER
THEN BASED ON THE
COMPUTER FIRST PAINT'S
DRAWING, TEXT, CHILDREN'S
LIKE HERE
COMPUTER IS WAY TO GAIN KNOWLEDGE
KNOWLEDGE IS SOME INFORMATION
NO LOT OF INFORMATION HERE IN COMPUTER
USEFUL USE OUR LIFE
COMPUTER IS EASY LEARNING
LEARNING FOR OUR LIFE
COMPUTER ALSO USING OUR LIFE
CHILDREN'S LEARN BASED ON THE COMPUTER PARTS

S.SAHAYA AMIRTHA LIDIYA

I B.ED (COMPUTER SCIENCE)

#### **COMPUTER USES**

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IT IS VERY USEFUL TO ALL

WE CAN SEARCH LOT OF INFORMATION

WITHOUT SPENDING MONEY

WE CAN GAIN MORE KNOWLEDGE

IT IS VERY USEFUL TO ALL

AND IT HELPFUL TO LEARN AND TEACH

IT HAS HIGH STORAGE CAPACITY

IN THAT WE CAN STORE A LOT

AND IT HAS MORE ADVANTAGES AND DISADVANTAGES

BUT IT IS BASED IN THE USER

SO WE SHOULD USE IN THE PROPER WAY

IT IS VERY USEFUL AND HELPFUL

GAIN THE KNOWLEDGE AND LEAD THE HAPPY LIFE

**USE IT AND ENJOY IT** 

**G.GOWSALYA** 

**B.ED I (COMPUTER SCIENCE)** 

## KNOWLEDGE OF COMPUTER

COMPUTER LANGUAGE
SPOKEN BY EVERY PERSON
WITH THE MOVE OF MOUSE
ON BOARD WITH KEYBOARD

INTERNET IS THE BRIDGE
TO MAKE THE CONNECTION INTERNATIONALLY
A SINGLE TOUCH CAN MAKE A CHANGE IN WORLD
WITH A VIEW OF VISUALIZATION

INNOVATION HAS ITS BEND
IN THE GROWING TECHNOLOGY
TECHNOLOGY HAS ITS DEVELOPMENT
IN THE UPDATION

WORLD CAN BE IN FINGERS
WITH THE HELP OF KEYBOARD & MOUSE
VIEW OF THE BEAUTIFUL WORLD
HAS BEEN SEEN THROUGH VISUALS

PHOTOSHOP, IMAGES, VIDEOS, VISUALS
ARE THE MEMORIES OF CREATION
CHANGE THE WORLD WITH THE
CHANGING TECHNOLOGY AND ENVIRONMENT

MRS.S.ABIRAMI
I B.ED (COMPUTER SCIENCE)

#### LOVE FOR COMMERCE

IT IS NOT BEING CONSIDERED AS POSITION STATEMENT.
BUT NOT AN INCOME STATEMENT...
IT'S DIFFICULT TO CALCULATE ITS RATIO...
BUT EASY IN FLOW STATEMENT.

THE ADMISSION IS RESTRICTED.

ONCE RETRIED THEN POSSIBLE TO BE RE-REGISTERED.

IF DEATH OCCURS THEN THE EXECUTORS

ACCOUNT GETS OVER FLOODED WITH LOVE

LIKE FUND FROM THE OTHER EXISTING ACCOUNT.

LOVE CAN BE CALLEDAS AN INTANGIBLE ASSET.
BUT IT IS SURELY A FIXED.
IT IS ALSO THE GOODWILL OF THE BUSINESS FIRMS.
WHERE FIRMS ARE THE HUMAN SOULS.

IT CHANGES ITS FORM AS CAPTIAL IN THE
BALANCE SHEET IS THE SUMMATION
OF COMMITMENT & SPCIAL CARE
WHERE THE FORMER BEING ASSETS & LATTER AS LIABILITIES.

IT SHOULD ALWAYS BE CREDITED AS NET PROFIT IN THE PROFIT & LOSS ACCOUNT.
SHOULD BE DEBITED AS SURPLUS IN THE INCOME & EXPENDITURE ACCOUNT.

V.ABINAYA
I B.ED (COMMERCE)

## **GST AND OTHER TAXES**

#### **GST:**

The goods and services tax is a value added tax levied on most goods and services sold for domestic consumption. The GST is paid by consumers, but it is remitted to the government by the business the selling goods and service. In effect, the GST provides revenue for the government.

#### **HOW THE GST SYSTEM WORKS:**

Most of the country with have single unified GST system, which means that single rate is applied throughout the country. A country with a unified GST platform merges central tax with state level taxes and collect them as one single tax.

#### INDIA'S ADOPTION OF THE GST:

India established a dual GST structure in 2017, the main objective of incorporating the GST is to eliminate tax on tax or double taxation, which cascade from the manufacturing level to consumption level.

PJESSIE CATHRINE,
I BED(COMMERCE)

# பூமியில் மன்னிப்பு

நினைத்தபோதெல்லாம்

அதை போன்று ஒளிருகின்ற

உன் முகம் நினைவிற்கு வந்தது...

நட்சத்திரத்தை

நினைத்தபோதெல்லாம்...

உன் கண் விழிகள் நினைவிற்கு வந்தது...

மழைத்துளியை

உன் புனன்கை நினைவிற்கு வந்தது...

வாழ்க்கை என்றும் முடிந்துபோவதில்லை...

வாழ்கின்ற நாம் தான் முடிந்து போகிறோம்!

குற்றம் கானில் சுற்றம் இல்லை...

குற்றமற்ற மனிதா்கள் யாரும் இவ்வுலகிலில்லை!!!

நான் உனக்கு இழைத்த தீங்குகளை...

மன்னிப்பு என்ற சொல்லால் நியாயப்படுத்தி விட

எனக்கு நீ புகட்டிய பாடங்களுக்கெல்லாம்

நன்றி என்ற சொல்லும் கூட ஈடாகி விடமுடியாது.

P.GAYATHRI
I BED (HISTORY)

## புவிக்கு ஓர் மன்னிப்பு கவிதை

- 💠 அதை கிரி விலைபோட்டு வணிகம் செய்தோமே
- 💠 மரங்கள் நிற்கும் வனங்களை புதைத்து
- 💠 கட்டிடங்களை அதன் கல்லறையாய் எழுப்பினோமே
- ❖ நீரையும் பாழாக்கினோமே
- 💠 உருகியே நீராகி தாய் பாலாய் ஊட்டினாள்
- பூமித்தாய் உன்னை அழித்து நாங்கள் எங்களை அழித்துக் கொண்டு இருக்கிறோம்
- 💠 எங்களை மன்னித்து விடு தாயே!

## ஹைக்கூ

புடித்திருந்தாலும்

- உணர்ந்திருப்பேனோ
- உன் கண்ணீர்
- உணர்த்திய குற்றத்தை

அம்மா!!!

பணத்தின் சரியான பயன்பாடு

இரவையும் பகலையும்

மறந்த பயன்பாடு

இணையத்தின் பயன்பாடு.

S.NANDHINI
I BED (HISTORY)

## அ..முதல் ஓள...வரை(சுதந்திரம்)

ஆருயீர் ஈந்த தலைவர்களை நினைத்து!
இன்னல்கள் பலபட்டு பெற்ற சுதந்திரம் எண்ணி!
ஈடு இணையற்ற மகிழ்ச்சி கொள்வோம்!
ஊள்ளத்தால் தேசத் தலைவர்களுக்கு நன்றி கூறி!
ஊக்கமுடன் நாமும் முயன்றிடுவோம்!
எதிலும் வளர்ச்சி பெற்றிடுவோம்!
ஏற்றம் அதிலே கண்டிடுவோம்!
ஐக்கியமாக இணைந்திடுவோம்!
ஒற்றுமையாக வாழ்ந்திடுவோம்!
ஓயாமல் நாளும் உழைத்திடுவோம்!

P.PRIYANKA
I BED (HISTORY)

## சுற்றுசூழல்

அப்பா சைக்கிள் ஓட்ட கற்று தந்த நீங்கள் எனக்கு சுற்றுச்சூழலை தேங்கிய முன்வரவில்லை. **தண்ணீ**ரை பாதுகாக்க அகர்ந நான் முற்பட்டேன். நீங்கள் என்னை தடுத்தீர்கள். நான் குப்பையினை ரோட்டில் போடும் போது அதனை இருந்தால் பின்பற்ற எண்ணிருப்பேன். மரத்தை எண்ணினேன். வேண்டாம் பாதுகாக்க அதனையும் என்றீர்கள். நட்டு முன்வரவில்லை. குப்பைகளை யாரும் முயன்றேன். அகந்ந நான் எறிந்தேன். அதன் ഖിതെപപ്പ ഒൽക്ക്ര கிடைத்த பரிசு அடி, அதனை ரெத்தினவேல் தன் சுயநலமும் சுந்நுசூழலின் அலட்சியமும் **அ**ழ, உணர்ந்து மனம் வருந்தி தனது பையனிடம் மன்னிப்பு கேட்டார். வீட்டின் சுற்றுசூழலை பாதுகாக்க தேவையான நடவடிக்கை எடுத்தார். பள்ளி மாணவர்கு முக்குச் சுற்றுசூழல் குறித்து விழிப்புணர்வு முலம் எடுத்து உரைத்தார்.

T.JIONA
I BED (HISTORY)

# வரலாறு ஓர் அறிமுகம்

#### முன்னுரை

- வரலாறு என்பது பெரியயோர்களின் மற்றும் சிறந்த மனிதனுடைய கதை மற்றும் நமக்கு முன்னார் வாழ்ந்த மக்கள் அரசர்கள் பற்றிய தகவல் ஆதாரங்களுடன் கூறுவது வரலாறு.
- வரலாறு ஒரு முக்கிய பகுதிய இருப்பது ஆதாரங்கள் அவை அருங்காட்சியம், ஓலைச்சுவடி, கல்வெட்டுக்கள்,இலக்கிய குறிப்புக்கள்,செம்பு தகடுகள்

#### வீரம் சொறிந்த தமிழர் வரலாற்றிற்கு நிகரற்ற எடுத்துக்காட்டு இராஜராஜசோழன்



அறிமுகம்.

பழ்ந்தமிழ் நூல்கள் எழுந்த காலத்திலேயே சோழர்கள் பற்றிய குறிப்புக்கள் பாடல்களில் வருகின்றன. நளன்கிள்ளி, நெடுங்கிள்ள கோர்ச்செங்கணான். கிள்ளிவளவன். கோப்பெருஞ்சோழன். முதலான சோழ மன்னர்கள் பற்றிய குறிப்புக்கள் புறநானூறு முதலான

விரிவாக வாசிக்க

#### வீரம் நிறைந்த மராட்டிய மன்னன் சத்ரபதி சிவாஜி



விரிவாக வாசிக்க

ரஆம் நூற்றாண்டின் தொடக்கத்தில் ஏற்பட்ட மராட்டியர் எழுச்சி தென்னிந்திய வரலாற்:றில் ஒர் முக்கிய நிகழ்வாகும். டெல்லி சுல்தானியரின் ஆட்சியை எதிர்த்து நின்று இந்துசமயம்இ இந்துதர்மம் என்பவற்றைத் தென்னகத்தில் பாதுகாத்தவர்கள் மராட்டியர்கள்.

இதற்கான அடித்தளத்தினை இட்டுக் கொடுத்தவன் மன்னன் ஷாஜிபான்ஸ்லே ஆவார்

#### முடிவுரை:

வரலாறு என்பதன் பொருள் மற்றும் அதன் ஆதாரங்கள் முக்கிய அரசர்கள் பற்றி விரிவாக பார்த்தோம்.

> SANKARESWARI I BED(HISTORY)

## இணையம்

இணையம் எங்கும் தமிழ் இதயம் வெல்லும் தமிழ் காலமாற்றம் ஏற்று பவனி செல்லும் தமிழ்

செம்மொழி எனைப்பாரென்று உரக்கச்சொல்லும் தமிழ் இணையத்தில் கவிதை பொழிந்து ரசனை அள்ளும்தமிழ்

இலக்கண இலக்கியம் அறிய இணையமே உதவிடும் நன்று கடல்தனை கடந்து சென்றாலும் தொடர்ந்திடும் தமிழும் இன்று

பிறமொழி கலப்பினை விட்டு நம்மொழி சிறப்பாய் பேச தமிழர்கள் நினைத்திடவேண்டும் தமிழிங்கு நிலைத்திடவேண்டும் இணையம் இருக்கும் வரைக்கும் தமிழும் இருக்கும் பெட்டகமாய்

இதயம் துடிக்கும் வரைக்கும் தமிழே ஜெயிக்கும் நிச்சயமாய்



B.S.PRIYA
I BED (TAMIL)

பாரதியும் பாரதிதாசனும்

- களைமண்டிக் கிடந்த கனித்தமிழ் மொழியைக் களை நீக்கிக் வடித்த கவிஞன் பாரதி! களை நீக்கித் தந்த கழனியிற் பலவாய் கனிக்காடு கண்டவர் பாரதிதாசன்!
- இருள ்சூழ்ந்திருந்த இவ்வைய முழுதும் எழக் கதிரான இளைஞன் பாரதி எழுந்த கதிர்முன் மானிடச் சாதிக்கு இரத்தம் ஊட்டினார் பாரதிதாசன்!
- நிலைகுலைந் திருந்த நெஞ்சினைத் தூக்கி நில் லெனச் சொன்ன வல்லோன் பாரதி! நிற்க வைத்த நெஞ்சினைத் தட்டி நிலைக்க வைத்தவர் பாரதிதாசன்! வகுத்தவன் முன்னோன் காத்தவன் பின்னோன்! வாழும் தமிழின் காவலர் இவர்கள்!

P.MEENA
I BED (TAMIL)

# வாழ்க்கை

சொல்ல முடியாத சோகங்களும் வெல்ல முடியாத வாதங்களும் பேச முடியாத வார்த்தைகளும் இழக்க விரும்பாதவற்றை இழப்பதும் இவையெல்லாம் கொண்டது தான் வாழ்க்கை

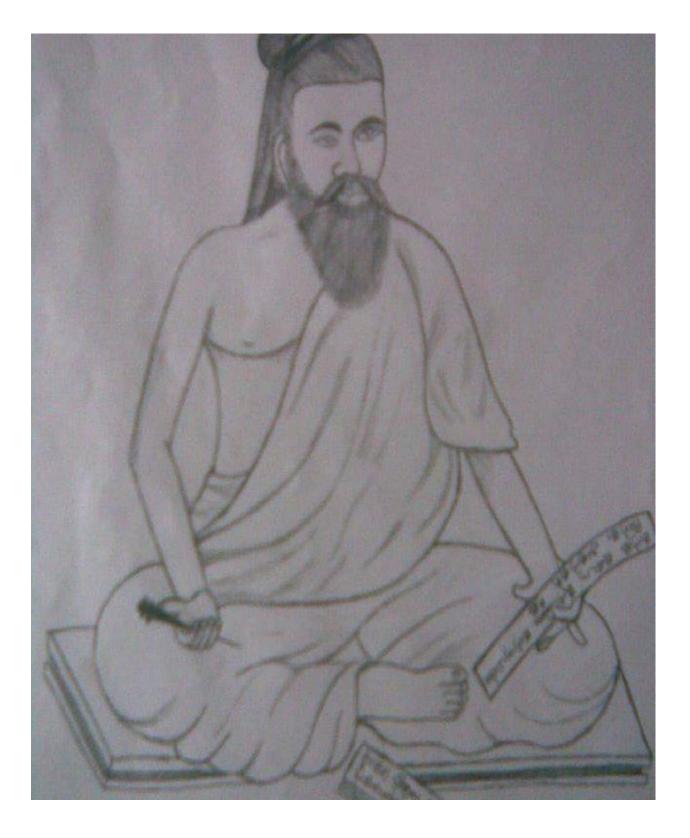
வாழ்க்கை என்பது ஜஸ் கிரீம் மாதிரி டேஸ்ட் பண்ணாலும் கரையும் வேஸ்ட் பண்ணாலும் கரையும் வாழ்க்கை என்பது வெள்ளைக் காகிதம் சுவரில் ஓவியமாவதும், குப்பைக்குப் போவதும் வரைபவர் கைகளில்

கருவறையில் இருந்து தொடங்கிக் கல்லறையை நோக்கிச் செல்லும் தூரம் தான் வாழ்க்கை போகும் போதே என்னை ரசித்துக்கொண்டு போ திரும்பி வரமாட்டேன் உனக்காக --- இப்படி வாழ்க்கை

தேடுவது இன்னும் கிடைக்கவில்லை

என்ற மன வருத்தத்தை விட என்ன தேடுகிறோம் என்றே தெரியாமல் நகர்கிற வாழ்க்கை வருத்தம் அளிக்கின்றது என்ன வாழ்க்கைடா இது என்று எண்ணுவதைவிட இந்த வாழ்க்கைக்கு என்ன குறை என்று எண்ணிப் பாருங்கள் வாழ்க்கையில் வெற்றி பெறலாம்

> சு.வே. சுபலெட்சுமி தமிழ்த்துறை முதலாமாண்டு



SUGAPRIYA
I BED (TAMIL)



S. SAHAYA JESMINE
I B.ED PHYSICAL SCIENCE