Meekly MGS Echo





Issue 173, 13 January 2023



Campus Principal's Message

Sometimes, some students might not see the relevance of the subjects learned in school. They might think that the sciences are difficult and dry subjects to study. But scientists who mastered their fields of study are the ones who will help make new discoveries that benefit mankind.

Recently, scientists at the Lawrence Livermore National Laboratory's National Ignition Facility, located in the United States of America, made history by producing a nuclear fusion reaction resulting in a net energy gain, a breakthrough that is potentially a milestone for the future of clean energy.

Nuclear fusion happens when two or more atoms are fused into one larger one, a process that generates a massive amount of energy as heat. It is the same process that produces power in the sun. This process is the opposite of nuclear fission which splits a larger atom into two or more smaller ones. The splitting of atoms generates energy but produces radioactive waste that must be stored safely and carries safety risks. Nuclear meltdowns, although rare, have occurred throughout history with wide-ranging and deadly results such as at the Fukushima and Chernobyl reactors.

With the discovery of nuclear fusion, it is possible to create a new source of limitless, carbon-free energy

This Week's Highlights

Message from Head of MIEY Ms. Adrinna Pierre

MIEY - Easing Emotional Roller Coaster In Children

MIS Primary - Physical Education

MIS Secondary - Accounting Used In Manufacturing

CCA Secondary - Creativity In Arts

MPS - "Ujian Akhir Sesi Akademik"

Boarding House - Fun Activities For New Boarders



without the nuclear waste created by current nuclear reactors. Fusion reactions mainly use the elements deuterium and tritium – both of which are isotopes of hydrogen. It has been estimated that the deuterium from a glass of water, with a little tritium added, could power the electrical needs of a house for a year. Tritium is rarer and more challenging to obtain, although it can be synthetically made.

This discovery reminds us that the potential of the human mind is limitless and we hope that one day the alumni of MGS will make themselves and everyone else proud by even more wonderful discoveries, not only in the sciences but also in the realm of the social sciences and creative arts.

Dealing with Preschool Separation Anxiety

Back-to-school time is an important time for all children as it is a huge deal for young children, especially those going to school for the first time. For many 3 and 4 years olds, preschool is their first experience in a classroom environment, and a parent's first experience leaving their child in someone else's hands for a large chunk of the day. Knowing what to expect on the first day of preschool can go a long way towards easing everyone's anxieties.

Young children will express their frustration by crying or screaming, while expected and is normal, can be heart-breaking for parents. When you change their environment from where they used to be comfortable, they need time to figure out their new setting and learn from their new experiences. It will take time to learn that their mommy and daddy will come back for them and they can depend on their teacher for love and support, and they can play and share with other children.

Message from Head of MIEY Ms. Adrinna Pierre

Remember that your child's developmental level at the time of their transition to preschool may have to do with the amount of

frustration that the child experiences. Children with a more sensitive temperament may be slower to warm up to their new setting and could exhibit additional frustration, anxiety, or fear. This is normal and our experienced teachers are trained to support the children with empathy and acceptance.

As parents, you too will face stress and anxiety in leaving your child at preschool for the first time. If you want your child to transition to preschool successfully, it is important to give time to acknowledge the change and prepare for the possibility that it may take longer for the child to settle into the new routine than anticipated.



Campus Principal's Message Translated

在校内有一些学生有时候可能感受不到所学科目之间的相关 性。他们可能认为科学是难以理解的枯燥科目,但精通其研究 领域的科学家却不断研究造福人类的新发现。

最近,在美国的劳伦斯利弗莫尔国家实验室,科学家们缔造了 历史,进行惯性约束核聚变,实现了核聚变反应的新高点,这 一突破极可能成为未来清洁能源的里程碑。

当两个或更多原子融合成一个更大的原子时,就会发生核聚变,这一过程会产生大量能量作为热量。这与在太阳能中产生能量的过程原理是相同的。这个过程与核裂变相反,核裂变将一个较大的原子分裂成两个或多个较小的原子。原子分裂产生能量但会产生放射性废物,虽危害风险低但亦必须安全地储存。核熔毁虽然很少见,但在历史上曾发生过,并造成了巨大

Kadangkala, sesetengah pelajar mungkin tidak melihat kepentingan mata pelajaran yang dipelajari di sekolah. Mereka mungkin berfikir bahawa sains adalah subjek yang sukar dan kurang menarik untuk dipelajari. Tetapi saintis yang menguasai bidang pengajian mereka adalah orang yang membantu membuat penemuan baharu yang memberi manfaat kepada manusia.

Baru-baru ini, saintis di Lawrence Livermore National Laboratory's National Ignition Facility, yang terletak di Amerika Syarikat, mencipta sejarah dengan menghasilkan tindak balas pelakuran nuklear yang menghasilkan tenaga bersih, satu kejayaan yang berpotensi menjadi peristiwa penting untuk masa depan tenaga bersih.

Pelakuran nuklear berlaku apabila dua atau lebih atom digabungkan menjadi satu jisim yang lebih besar, proses yang menghasilkan sejumlah besar tenaga haba. Ia adalah proses yang sama yang menghasilkan kuasa oleh matahari. Proses ini bertentangan dengan pembelahan nuklear yang membelah atom yang lebih besar kepada dua atau lebih atom yang lebih kecil. Pemisahan atom menjana tenaga dan juga menghasilkan sisa radioaktif yang mesti disimpan dengan selamat kerana membawa

而致命的后果,例如福岛和切尔诺贝利反应堆。

随着核聚变的发现,有可能创造出一种无限的、无碳能源的新来源——而不会产生当前核反应堆 产生的核废料。聚变反应主要使用元素氘和氚 ——这两种元素都是氢的同位素。据估计,一杯 水中的氘加上少量氚,可以提供一间房子一售的 电力需求。尽管可以透过合成制造氚,但它是非常艰难获得的稀少资源。

这一发现提醒我们,人类思维的潜力是无限的。 我们希望有一天 我们的校友,不论在科学领域, 还是在社会科学领域及创意艺术,都能够为自己 和所有人带来更多感到自豪的奇妙发明。

risiko keselamatan. Peleburan nuklear, walaupun jarang berlaku, telah berlaku dalam sejarah dengan impak yang besar dan membawa maut seperti di reaktor nuklear Fukushima dan Chernobyl.

nuklear, Dengan penemuan ledakan kemungkinan untuk kita mencipta sumber tenaga tanpa had dan bebas karbon - tanpa sisa nuklear yang dihasilkan oleh reaktor nuklear pada masa ini. Tindak balas gabungan terutamanya menggunakan unsur deuterium dan tritium - kedua-duanya adalah isotop hidrogen. Dianggarkan bahawa deuterium daripada segelas air, dengan sedikit tritium ditambah, boleh memberi kuasa kepada keperluan elektrik sebuah rumah selama setahun. Tritium lebih jarang dan lebih mencabar untuk diperolehi, walaupun ia boleh dibuat secara sintetik.

Penemuan ini mengingatkan kita bahawa potensi minda manusia tidak terhad dan kami berharap suatu hari nanti alumni MGS akan membuat semua orang berasa bangga dengan penemuan yang lebih hebat, bukan sahaja dalam sains tetapi juga dalam bidang sains sosial dan seni kreatif.

MIEY - EASING EMOTIONAL ROLLER COASTER IN CHILDREN

To ease all the emotional roller coasters that you go through as a parent and the frustration that your child displays, we at Early Years provide a comfortable and safe environment and, above all, emotional and physical safety. We interact with the children by encouraging emotional expression and helping children name their emotions while teachers regularly express care and refrain from using negative labels on the children for their behaviour.

On the home front, expect things to be a bit bumpy for a few days and try to avoid making too many other changes to your family's routine at the same time. The few days of school can be tiring and exhausting. Let them nap longer and go to bed early and spend as much time with them as possible to compensate for the time spent in preschool.

Most importantly, keep in close contact with your child's teacher to get a regular update of how your child is doing in preschool.

"The more risk you allow children to take, the better they learn to take care of themselves." - Roald Dahl



MIS PRIMARY - PHYSICAL EDUCATION

With the increase in the consumption of junk food and easy availability of non-physical activities in the last few years, children are spending less time keeping themselves healthy. Physical education helps in developing students' awareness, competence and confidence. It helps them to take part in a wide range of physical activities that are crucial to their lives -both in and out of school. Here are some of our students' thoughts on physical education (PE)

I like PE because I get to learn, exercise and play a lot of sports. My favourite topic is our current unit is badminton. - Sasidaran, Year 4M

I think PE is a wonderful subject. I have learned how to take care of my health. I have progressed in PE and have enjoyed the lessons. My favourite sports are handball and badminton. I cannot wait to learn more and am very excited to see what sports and units in PE are headed my way. - Mahathi, Year 6M

The reason I like PE is because I learn new stuff every time in PE. I learn to keep fit through sports. My favourite sports are handball, badminton and tennis. I look forward to learn more in PE and I can't wait to know what we will learn next. - Jaslene, Year 6M

During this academic year, we have done athletics, handball and cricket in our PE lessons. I had lot of fun in term 1. I enjoyed handball because it is fun to play. I love team sports, and that is why I like PE so much. I am very excited for the next PE lesson and I also love bowling and improving my batting skills in cricket. - Keisho, Year 5M





Milepost 1 - students improving their skill of throwing at a target and balancing skills.





Milepost 2 - students trying partner balancing in the units gymnastics and team sports.



Milepost 3 students working on their balance by controlling the bat and ball in table tennis.

MIS SECONDARY- ACCOUNTING USED IN MANUFACTURING



type of accounting primary used manufacturing is known as cost accounting. It's a form of accounting that tracks production costs in a way that managers can use to inform business decisions.

Our year 11 students have been learning about 'cost accounting' and its role in the process of working out whether it is cheaper for a firm to make or buy finished products.

As a result, cost accounting is less about creating financial statements for third parties and more about facilitating various forms of internal analysis. For example, manufacturing businesses use cost

accounting to complete processes like the following:

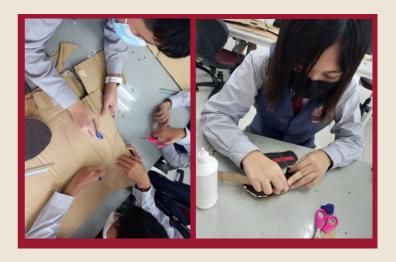
- Budgeting: Manufacturers must create budgets for each stage of the production process to ensure they stay on track and set appropriate sales prices. Cost accounting tracks historical production costs, which helps create more accurate estimates for future activities.
- Constraint analysis: This involves isolating potential bottlenecks in your manufacturing and improving them to increase overall efficiency. Organising the production costs helps managers determine which resources limit their output most and plan accordingly.
- Margin analysis: This involves calculating all the costs associated with an aspect of production, then subtracting them from the revenue it generates. That gives the manager each aspect's marginal profitability and to find the most lucrative products, customers, or channels and inform business decisions.

addition, manufacturing involves inventory management accounting. Because manufacturers carry significant inventories, they need to know how to track their costs to create accurate financial statements and comply with accounting standards. This process is aided with cost accounting which uses accounting processes for business decisions.

CCA SECONDARY - CREATIVITY IN ARTS

In 2022, Art Club gave exposure to the students to be creative in many different types of art such as crafting, sketching, and drawing. Students develop their skills and improvise the method in terms of using the art material or recycled items.

This year, 2023, the Art Club will introduce more art styles from other countries and give the students the opportunity to explore and create their own art styles to allow the students to understand the beauty of art. Students will do the artwork based on a theme given by the teacher in charge. The students' artwork will be displayed in an exhibition, in the later part of the year, as a part of their achievement during CCA.



MPS - "Ujian Akhir Sesi Akademik"



This week, all MPS students from Standard 4 to Form 3 (COHORT 2022) will be taking the "Ujian Akhir Sesi Akademik" (end of academic session examination) for selected subjects. This examination are fully prepared by the Ministry of Education (MoE) for all national curriculum schools in Malaysia. The examination papers will be marked internally, based on a marking scheme provided by the MoE and will go through moderation before the results are transferred to the grading system.

The outcome of the examination will be shared with parents to discuss further on the next actions needed to support the learning of the students.

Matrix Private School will use the results of this examination as input for teachers to discover how much knowledge students have acquired in the subjects assessed, based on the year's syllabus coverage. It will be an indicator to gauge the level of every students' knowledge and to discover any learning gaps they might have before proceeding to the current year's syllabus. The assessment allows the school to identify what areas every child is doing well in and what areas they need to improve on based on the previous year's coverage.

The examination results also will be used by the school to inform learning and teaching so we can help support our students further in their learning. With the information, the teacher will be able to create a realistic roadmap to address any gaps in knowledge.

Ultimately, assessments make the teaching/learning process more efficient and effective by zeroing in on content that needs to be taught and mastered. It puts the students and teachers on the same page and creates a better learning experience for everyone.

BOARDING HOUSE - FUN ACTIVITIES FOR NEW BOARDERS

On 7th of January 2023, the Boarding House arranged weekend activities for the boarders at d'Tempat Country Club. Boarders took part in swimming, gymnastics and snooker. It was a tremendously enjoyable outing for boarders, especially our new students.



Korean trial class students, Ian Chun, Jeong Yoon Seung and Choi Hyeok Jun, enjoy swimming in the pool.



New Korean students, Yun Seowon and Yun Chaewon, doing intensive exercises in the gymnasium.



Audry and Exuan having an enjoyable time playing snooker at d'Tempat.