



UK-MALAYSIA STEM EDUCATION SHOWCASE

6 January 2025

Conference Room, Menara Binjai

Organiser: The British High Commission KL (BHC KL)

UK Campaign partner: UK STEM Learning and CSA Catapult

Strategic partner: Universiti Malaya STEM Centre

The UK-Malaysia STEM Education Showcase aims to support the development of STEM education in Malaysia by highlighting the UK's innovative approaches to STEM learning. This initiative includes a Train-the-Trainer program, an interactive STEM mobile lab experience for Malaysian state school students aged 11 to 12 years old, and a showcase event featuring the official launch of the mobile lab tour, as well as a roundtable discussion between UK and Malaysian representatives.

The UK-MY STEM Policy Roundtable seeks to unite key stakeholders from the UK and Malaysia to:

- Share best practices in STEM education at the school level.
- Discuss challenges and strategies for keeping STEM education relevant and equipping school leavers with essential skills.
- Explore collaboration between industry and schools to enhance STEM learning and connect education with the workforce.
- Recommend an action plan to support Malaysia's STEM education strategy and foster UK-MY partnerships in K-12 STEM.



SCHOOL TOUR - STEM EDUCATION SHOWCASE

The School Tour is designed to support Malaysia's educational development in STEM (Science, Technology, Engineering, and Mathematics) learning and to highlight the UK's approaches to STEM education. This event follows the Train-the-Trainer program for My STEM Ambassadors, which took place in December 2024. In January, these ambassadors visited schools to engage students in various activities based on STEM modules. This initiative includes an interactive STEM mobile lab experience specifically designed for Standard 6 students in Malaysian state schools.



SJKT SEGAMPUT
16 Jan 2025

SK JALAN ENAM
15 Jan 2025



SK SENTUL UTAMA
14 Jan 2025



**SJKC SERDANG
BARU 1**
13 Jan 2025



SCHOOL TOUR - STEM EDUCATION SHOWCASE

SCHOOL TOUR
6
UNIVERSITIES

SCHOOL TOUR
113
MY STEM
AMBASSADORS

SCHOOL TOUR
9
SCHOOLS

SCHOOL TOUR
427
SCHOOL
CHILDREN



SJKC CHUNG KWOK
10 Jan 2025

SK DESA PUTRA
9 Jan 2025



SK JALAN BATU (P)
8 Jan 2025

SK JALAN BATU (L)
7 Jan 2025





HIGH IMPACT RESEARCH (HIR), UM





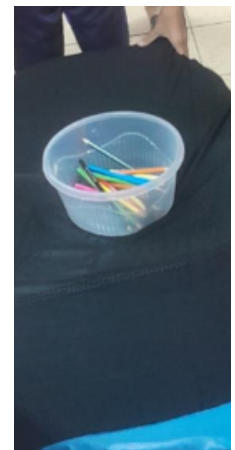
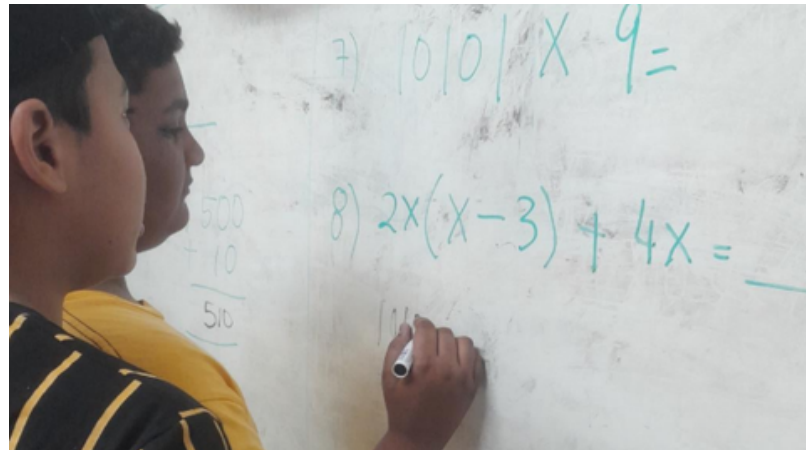
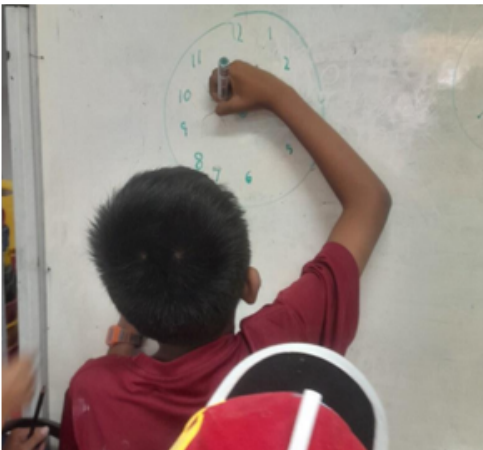
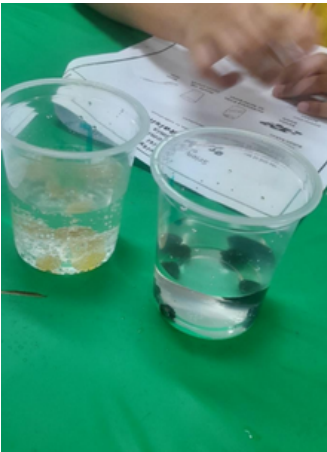
DEPARTMENT OF PHYSICS, FACULTY OF SCIENCE, UM



THE K2K KELAB MYSTAR

21, 23 & 24 January 2025
PA Seri Kota and PPR Taman Mulia
Think City Sdn. Bhd.

This program encourages children to explore STEM through engaging hands-on activities! Participants enjoyed a variety of experiences, including dancing raisins, a magic water experiment, corn flour wonders, easy inertia, and a "What's the Time?" activity. Through these activities, children can learn, create, and discover the wonders of engineering, physics, biology, mathematics, and chemistry!



UM STEM DISCOVERY @ PASUM

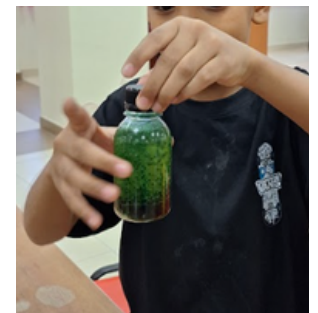
3 - 7 February 2025
PASUM Library

What an incredible journey at the UM STEM Discovery!

The young participants had an incredible experience filled with engaging hands-on experiments and the wonders of STEM, under the guidance of the lecturers and teachers from Pusat Asasi Sains UM (PASUM). We extend our heartfelt gratitude to all the children, parents, and volunteers who played a vital role in making this event a success! Let's continue to inspire curiosity and creativity in STEM for a brighter future.

Activities:

Earth in a Ball, Fun with Chemistry, Fun with Maths, Marshmallow Tower Go, Lava Lamp, All about Speed, Foamy Fun Mystery, The Miracles of Light, Foil Boats Challenge, Magnetic Slime





UM STEM DISCOVERY MAY 2025

29 - 30 May 2025

High Impact Research (HIR) Building

X-Ray Explorers! by A.P. Dr. Siti Fairus Abdul Sani, Department of Physics UM

STEM Aero: Exploring Drone by Nzzpro Sdn. Bhd.

STEM in a Pan: The Thosai Experiment by Institut Sains Biologi UM

Teatime Chemistry: Let's Go to Mummie's Lab!



Kedah STEM MINI THEATER - Pitching Fiesta

24-26 February 2025

LADA, Langkawi

National STEM Association (NSA) and Kedah State Government

The main goal was to showcase the creative products developed by B40 students. This process included several stages: designing an innovative product, carrying out innovation research, creating a prototype, developing a script for a mini theatre presentation, and finally showcasing the innovative product on a mini theatre stage. The NSA has launched the STEM Mini Theatre project as an initial effort to identify and nurture talents and skills in STEM fields.



Mini Theatre STEM – Selangor (Level 3)

19 June 2025

Academy of Science Malaysia (ASM)

National STEM Association (NSA) and Selangor State Government



Visit from universities in Taiwan

21 April 2025

Jupiter Meeting Room, KPPI, UM

Universities in Taiwan: Nanhua University, Da-Yeh University, Nan Kai University of Technology, and Hungkuang University.

We are honoured to host a distinguished delegation from four partner universities in Taiwan: Nanhua University, Da-Yeh University, Nan Kai University of Technology, and Hungkuang University. The signing ceremony of the Letter of Intent (LoI) and a discussion session were held on Monday, April 21, 2025, in the Jupiter Meeting Room on Level 4 of the KPPI at Universiti Malaya.



School visit - SMK Sri Kiambang, Pasir Mas, Kelantan

25 April 2025
Makerspace@UM

A total of 35 students, 10 teachers and school representatives participated in a visit to the Technology Innovation Centre (Makerspace@UM), where they were given exposure to the technology, innovation, and research conducted at the Universiti Malaya.

This visit also aims to open students' minds to skills in the field of technology that can be explored as preparation for a brighter future. Thank you to the Technology Innovation Centre (Makerspace@UM) for graciously accepting this visit and sharing knowledge and inspiration with the students!



STEM Robotics Talk

21 May 2025

SK Dengkil

SK Dengkil and Urbanice

On May 21, 2025, UM STEM Centre had the opportunity to conduct a STEM Mini Workshop (Robotics & Algorithm) at SK Dengkil, Selangor, in conjunction with the official opening of the STEM Room for the School Transformation Space Project by Urbanice Malaysia. Thank you for the invitation and the opportunity to share STEM activities and knowledge with the teachers and students of SK Dengkil.

May this STEM Room be a space of inspiration to explore, experiment, and create!



STEM AI (Artificial Intelligence) Talk

10 June 2025

MRSM Gemencheh



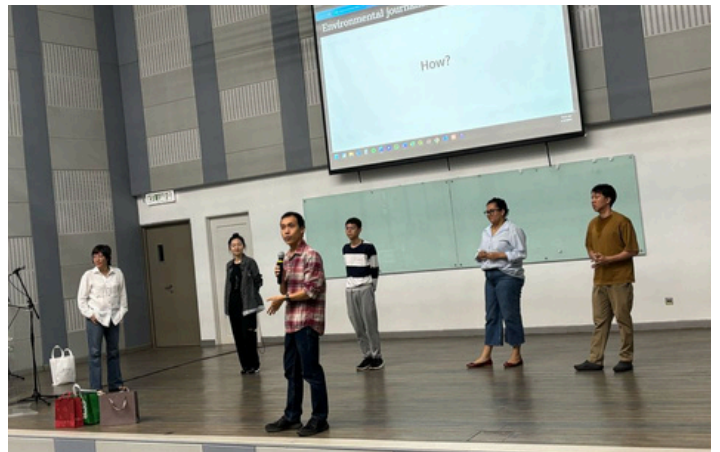
Workshop on environmental journalism

3 & 10 May 2025

Anjung Ilmu, UM & Taylor's University

Macaranga Media Sdn. Bhd., UM STEM Centre and Taylor's University

The Universiti Malaya STEM Centre, in collaboration with Macaranga Media Sdn. Bhd., a media company devoted to environmental journalism, has organised an event aimed at increasing student involvement in environmental reporting. This partnership will focus on workshops and a competition designed to develop journalistic skills among students from the partner universities, which include Universiti Malaya and Taylor's University.



Organiser: Macaranga
Co-Organiser: UM STEM, TAYLOR'S UNIVERSITY SCHOOL OF MEDIA AND COMMUNICATION
Sponsor: youth environment living labs, UNICEF, UNDP, ARLM, EUROPEAN UNION, OSK FOUNDATION
Grant administrator: cilros

School Visit - SMK Pusat Bandar Puchong 1

11 June 2025

Faculty of Medicine, Rimba Ilmu, and High Impact Research, Building (HIR), UM

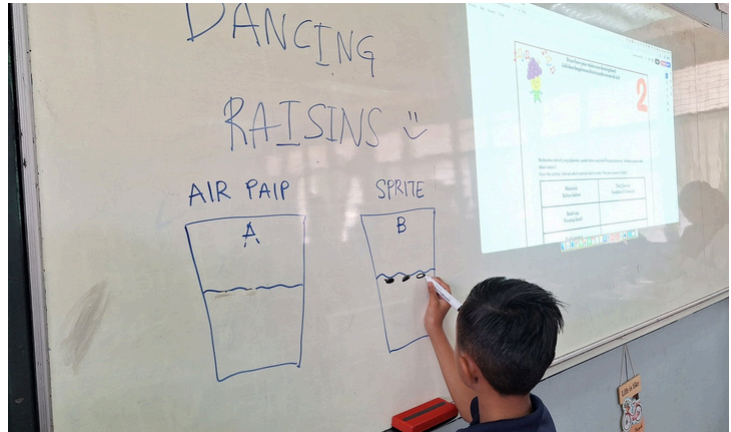
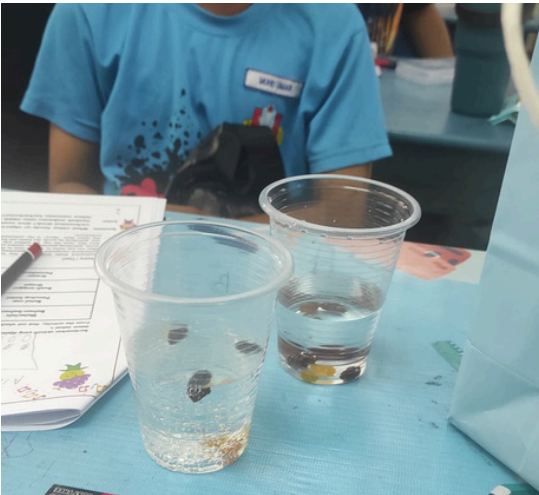
On 11 June 2025, SMK Pusat Bandar Puchong 1 visited Universiti Malaya for an educational trip. During their visit, they explored the Tan Sri Dr. Lim Wee Chai Medical Museum, which is renowned for its extensive collection of anatomical specimens and medical educational exhibits. Following that, they visited Rimba Ilmu, where they were surrounded by the beauty of nature on the university campus. The vibrant foliage and rich biodiversity provided a perfect backdrop for discussions about ecosystems and biology. To conclude the day, the students participated in hands-on STEM activities that encouraged critical thinking and teamwork. This combination of education and exploration made the visit memorable, allowing students to connect what they learned in the classroom with real-world applications. Overall, the trip was a wonderful blend of learning, adventure, and curiosity, igniting a passion for discovery in our young learners.



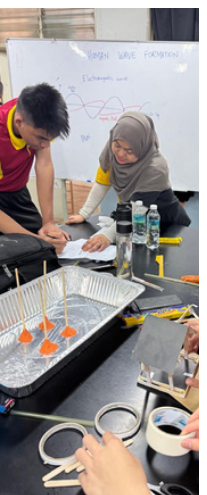
MAYBANK CAHAYA KASIH

Igniting a Passion for Science! In collaboration with Maybank Cahaya Kasih, we revitalized the learning experience at SK Sri Subang Jaya and SMK Cochrane through exciting, hands-on science experiments and engaging activities.

SK Sri Subang Jaya 24 May 2025



SMK Cochrane 14 June, 5, 19, & 26 July 2025



STEM DESIGN THINKING WORKSHOP @ VICTORIA INSTITUTION

17 June 2024
Victoria Institution
KITS Malaysia

A 2-hour mini-workshop discussing the importance of design thinking skills implemented alongside artificial intelligence (AI) capabilities, delivered by Assoc. Prof. Ir. Dr. Mas Sahidayana.



MYREF I-TEKAD PERWIRA-I- ONBOARDING SESSION

30 June 2025
JHEV, Kuala Lumpur
JHEV, PERHEBAT, MyREF, Affin Islamic & UM STEM Centre

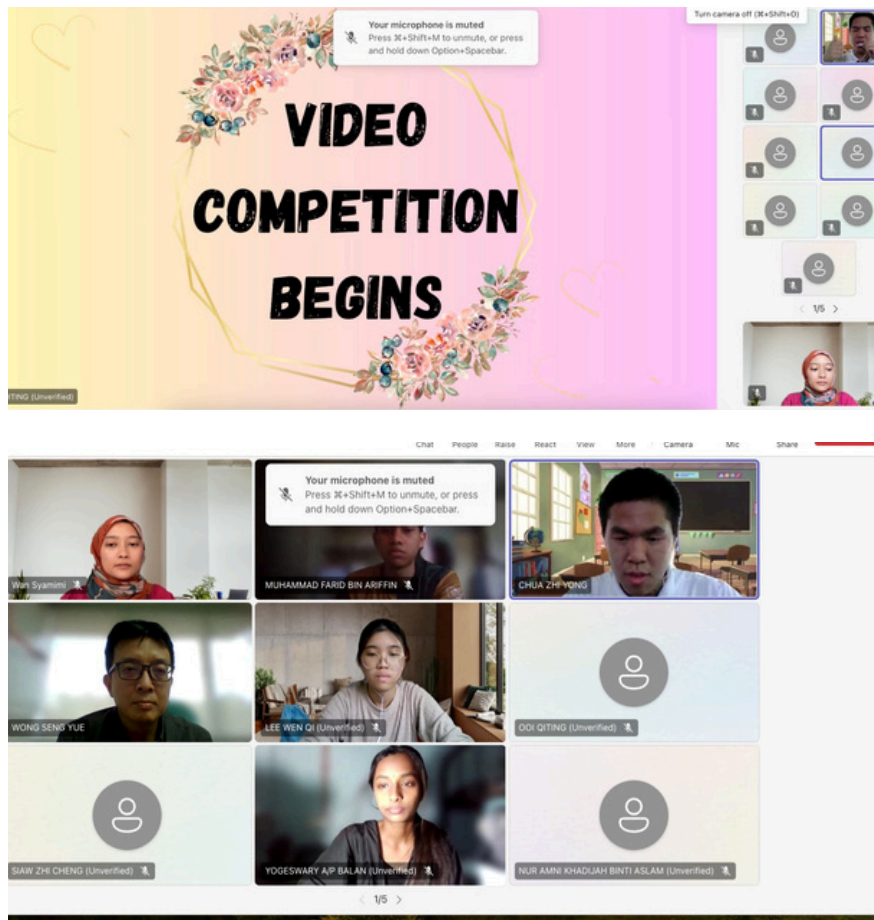
Onboarding session with candidates for the MyREF Hijrahpreneur Skills Program.



Online STEM Video Competition GBX0011 - STEM Education Management

GBX0011 - STEM Education Management focuses on helping students develop critical thinking skills to enhance their cognitive abilities, engage in intellectual activities, and acquire management skills within the realms of STEM (Science, Technology, Engineering, and Mathematics). Students will explore various topics related to STEM, including different types of activities and experiments along with their practical applications. Additionally, students will work with DIY materials and knowledge to tackle the challenges of low interest in STEM learning and the management of STEM education in our country.

2 January 2025



19 June 2025



STEM TRAIN-THE-TRAINER (TTT) WITH UITM SEGAMAT CAMPUS

20 June 2025

High Impact Research Building (HIR)

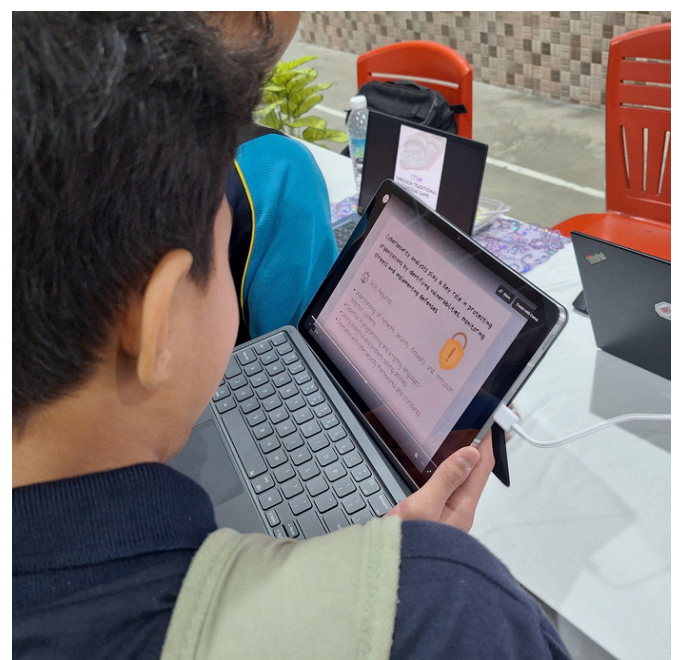
The STEM Train the Trainer (TTT) program is designed to equip university students with the knowledge and skills necessary to effectively teach STEM (science, technology, engineering, and mathematics) concepts. The UiTM Segamat Campus students have participated in interactive STEM hands-on activities. These experiences not only reinforce their understanding of STEM subjects but also help them develop essential teaching methodologies. Participants gain knowledge about conducting a STEM module to a group of students and ways to promote an inclusive learning atmosphere. This is essential for making STEM accessible and interesting to all school children, regardless of their backgrounds. Once university students have completed their training, they are expected to take their newfound expertise into local schools.



KARNIVAL STREAM SMK BUKIT SENTOSA 2

25 June 2025
SMK Bukit Sentosa 2

The STEM Carnival is an interactive event designed to celebrate and promote science, technology, reading, engineering, art, and mathematics (STREAM) through hands-on activities, demonstrations, and engaging challenges. Students have the opportunity to visit various booths and stations at the carnival, each featuring different STEM-related activities. One of the highlights of the event was the AR Cell brought by the UM STEM Centre, which allowed students to experiment with augmented reality and interact with facilitators. The STEM Carnival fosters curiosity and enthusiasm for STEM subjects by combining elements of reading and art education while encouraging collaboration and problem-solving skills. Overall, the event aims to spark a lifelong interest in these critical areas of study.



MORE EVENTS



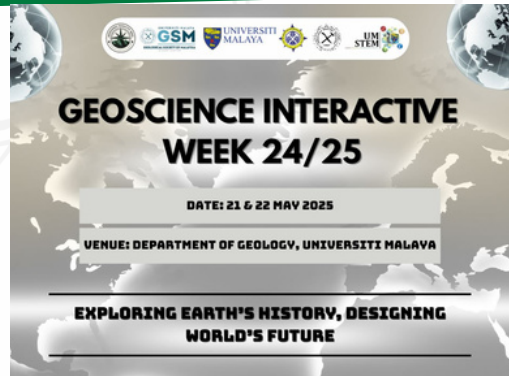
BraiNET STEM Early Childhood Education Parent Seminar & Yearly Assessment
BraiNet: 5 January 2025



NexGEN 2025
Pertandingan National NexGen Innovation 2025
AKIUM: 17 Feb - 27 May 2025



BrainSTEM Challenge
University of Malaya Students' Union (KMUM), Faculty of Science: 3 May 2025



Geoscience Interactive Week 24/25
Department of Geology
21 - 22 May 2025

STEM PROGRAMME

7-12 YEARS
13-15 YEARS
16-17 YEARS

Sign Up For May Class NOW!

STEM Programme

Fun Activities such as DIY Lung, Math Maze, Robotics Straw Hand, Balloon Car, Cup Shooter and more!

7 - 12 years

SCAN ME

WHY US ?

- Experience Universiti Malaya (UM) Environment at Young Age
- Special Coaching on Math & Science
- Venue at UM STEM Centre
- Certificate Awarded Session

2024 Intake

Sign Up For May Class NOW!

STEM Programme

Fun Activities such as Popsicle Tower, Rubber Band Car, DIY Torchlight, Geometrical Shapes, Corn Flour Wonders and more!

13 - 15 years

SCAN ME

WHY US ?

- Experience Universiti Malaya (UM) Environment at Young Age
- Special Coaching on Math, Science, Physics, Chemistry
- Venue at UM STEM Centre
- Certificate Awarded Session

2024 Intake

Sign Up For Jun Class NOW!

STEM Programme

Fun Activities such as Lemon Batteries, Brain Boosting, Cup Stack Challenge, Magic of MIR.

16 - 17 years

SCAN ME

WHY US ?

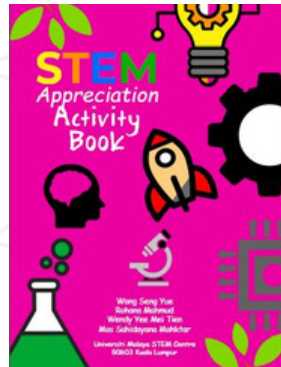
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2024 Intake

Publications



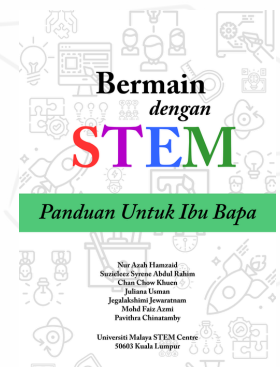
STEM ACTIVITY BOOK & Kit



STEM APPRECIATION ACTIVITY BOOK



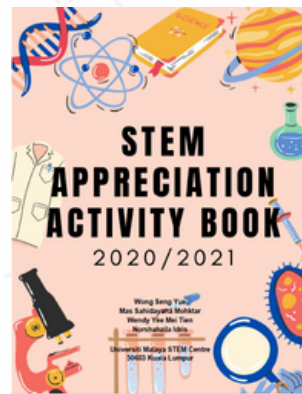
BEST PRACTICES IN STEM MENTOR MENTEE



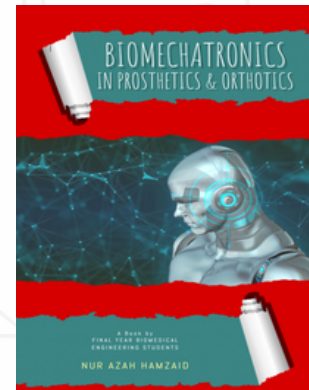
BERMAIN DENGAN STEM



Belajar Rukun Negara melalui STEM



STEM APPRECIATION ACTIVITY BOOK 2020/2021



Biomechanics in prosthetics & Orthotics

Office

MICROSOFT- UM STEM Learning Space

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