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MARVEL MODULE **Reimagining STEM. Repurposing ART.**

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MS Marvel strives to become an innovative 0 pedagogical approach that will make STEM teaching and learning experiences to become more meaningful through infusing the creative elements of visual arts. Hence, Reimagining STEM, Repurposing Art!

Karnival Mai Tah Bainovasi **U**0 t. Kebangsaan @ Labuan 50 26 & 27 April 2019



STREAM.

DESIGN THINKING

Ideally for students who possess the talents in drawing and passionate about helping people to learn about **STEM** (e.g. Chemistry) through art.

This fream is suitable for ALL STUDENTS as no specific drawing skills are required. It is all about having fun expressing STEM through individual expressions.



- **Recruitment of students through OPEN AUDITION to be part of MS** Marvel Stream Aspire as The Marvelists.
- **Requirement: adequate drawing skills.**

STREAM Empathize

- The Marvelists are trained to produce STEM artworks that will be beneficial for learning via **DESIGN THINKING METHOD**.
- Facilitators and The Marvelists conduct regular brainstorming sessions in order to create STEM artworks that will be effective in helping others to learn a certain area of STEM.
- **Tools: Google Classroom, Instagram, Adobe Photoshop, Pinterest** and etcetera.
- Initiation of Stream Aspire Club.
- Artworks are copyrighted with MyIPO.
- Shifting from Instagram to Pinterest.



INVOLVEMENT - Batch 18/19:9 Students Batch 19/20:7 Students



IMPACT!

From the THEMATIC ANALYSIS of The Marvelists' MINI JOURNALS, 3 THEMES have had emerged. These are the IMPACTS of Stream Aspire towards their learning experience in Labuan Matriculation College.

have awermic experiences during when I join the Manelists. I started to have inte cub when I saw some ads hung up near the chemistry lab hallway. After 1 If to the venue described in the ads, I am now officially join the club. ulomitled some arts, for me it may be simple but I do hope when other darts see it. they understand what inwart. After that, I joined the Thinking Crash Course, io that use can learn have to work "In a group by following these steps: Empathere, Define, policiphe and 1951. This Desyn Thinking on 1951 acqful for cap, but also asseful for eur future, ideas in universities or ng work. I deduct know this kind of skeps actually exists (LOL), by be use this in the finiture later. (Atthought 1 only follow this by for a moment because this program claused with the time d be a part of film project for PDT4 dinner.) During the I get to know about our group members non tiving activity, especially when we on, but it was fun. I got some ide lecturers' view. we also went to the arby and it was beautiful. We have a great Mentory and ex and yummy food slay!) In My opinion, for improving the program is Elixir Nova maylifor

jects, besides chemistry. (Biology, physics, maths & comp. science) so that many members/shudents, or even tecturers will poin the group Bessa Wagbe Elviar Nova can permore the new students/number during the Senter early first sem so that Elviar Novo con nate many activities. that's all :)

THEME (IMPACT) 1:

Effective Collaboration That Allowed Marvelists to Create and Grew Together as Artists & Students.

THEME (IMPACT) 2: Renewed Interest in STEM (Chemistry).

THEME (IMPACT) 3: **Design Thinking Empowered Marvelists To Become Better Artists & Individuals**

OBJECTIVES

- To make STEM learning ENJOYABLE.
- To make students to feel MORE RELAX in **STEM** lessons.
- To promote COLLABORATION through **CREATIVE works**.
- To increase CONFIDENCE in COMMUNICATING IDEAS.
- To instil greater sense of SOCIAL **RESPONSIBILITY & EMPOWERMENT.**



WHO?



97.9% STAT

96.8%

96.8%

94.1%

98.4%

96.8%

93.6% STAT









0/	AODEE (M = 277)		
%AGREE (N = 377)		ш	OPEN ENDED QUESTION (THEMATIC ANALYSIS):
9%	STATEMENT #I: STEM Art Therapy made lessons to be more enjoyable.	≥I-	What were THE MOST USEFUL aspects of STEM Art Therapy?
8%	STATEMENT #2: STEM Art Therapy helped to make lessons to be less stressful.	TAT	 Increased creativity in STEM (chemistry) learning (f = 41.7%).
8%	STATEMENT #3: The 5 – 10-minute drawing sessions promoted collaboration through creative works.	ALI	What were the most useful aspects of STEM Art Therapy? What were the most useful aspects of STEM Art Therapy? The most useful aspects of STEM Art Therapy? What were the most useful aspects of STEM Art Therapy? We may the set of source of
%	STATEMENT #4: The 1-minute sharing sessions increased confidence in communicating ideas.	D D	2. It helped to improve STEM (chemistry) knowledge (f = 34.8%)
4%	STATEMENT #5: STEM Art Therapy encouraged openness in sharing ideas.	Ë	What were the most useful aspects of STEM Art Therapy? =) It helps student to the to show either know where know where their feelings waskness in study and, thus to other student their feelings althought towards study and make them import their understanding. What were the most useful aspects of STEM Art Therapy? Help the Brudents to learn in a cademic subjects based on creativity rewiting in better understanding.
6%	STATEMENT #6: STEM Art Therapy instilled higher sense of social awareness.	PAG	3. The rapeutic outlet $(f = 11.4\%)$. What were the most useful aspects of STEM Art Therapp? I get to release some burie up frughter the regions in a diffield from a point of the subject
8%	STATEMENT #7:	Σ	I learned through the drzwing.

HOW IT GOES?

- I. 5 10 minutes of STEM Art Therapy
- I session or multiple sessions 2.
- **Based on sub-topics in STEM** 3.
- **Group work (preferably in pairs)** 4.
- **I-minute sharing**



Batch 18/19:191 Students Batch 19/20: 186 Students

MS MARVEL/ roadshows

- SMK Labuan, W. P. LABUAN
- SMK Tamparuli, SABAH
- SMK Tebobon, SABAH
- SBPI Kubang Pasu, KEDAH





THE MODULE!



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MPA

STEM Art Therapy outputs from Stream Inspire were displayed at a gallery for charity in collaboration with LMC _ibrary & Centre of Excellence and UMSKAL Autism Development Centre. The fund amounted to **RM322 was** donated to UMSKAL Autism Development Centre.



I looked forward for the next STEM Art Therapy sessions.







