

Researchers:

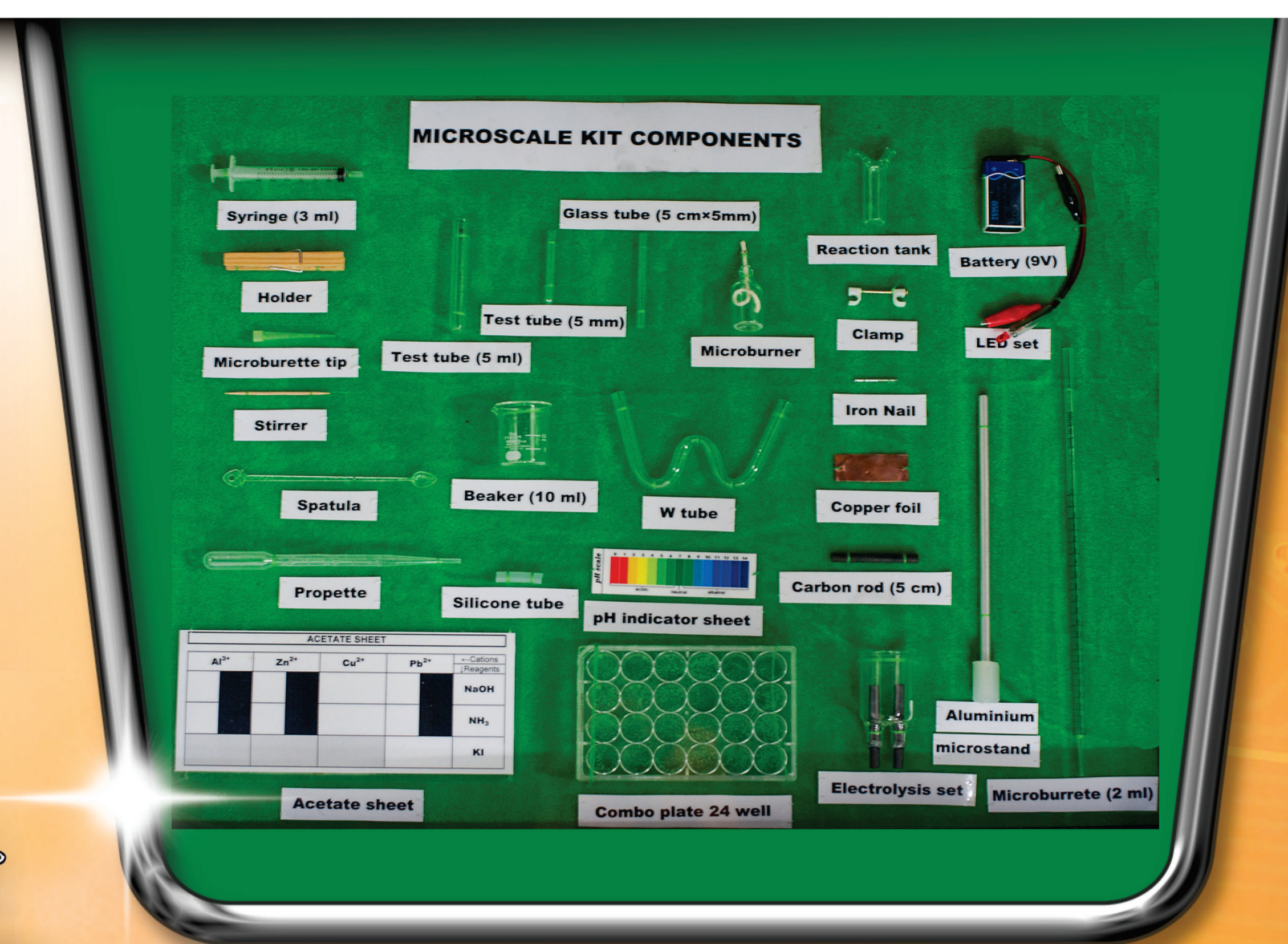
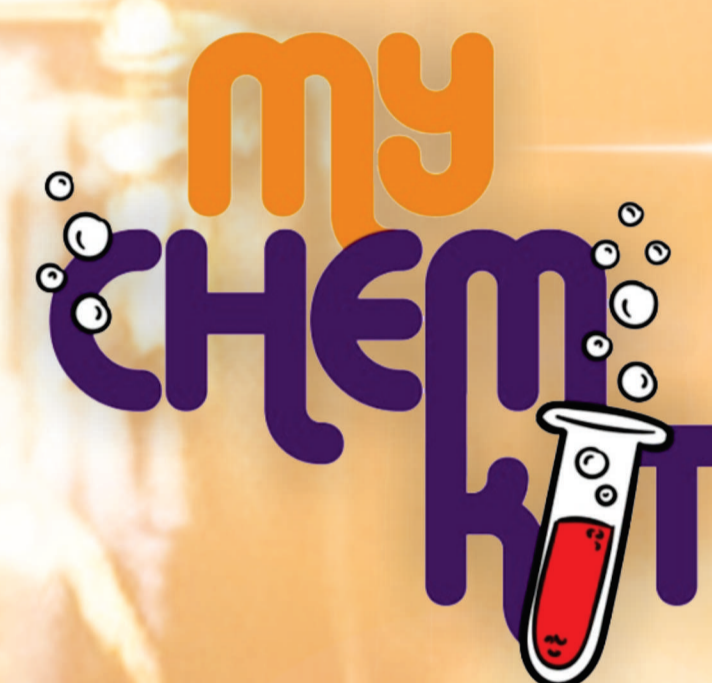
PROFESSOR DR. ROHANA ADNAN

Nora Afida Nordin
Ramlee Abd Wahab
Mohd Fahmi Mohd Yusoff
Noor Haida Mohd Kaus
Nur Farhana Jaafar
Nor Hasniza Zulkepli

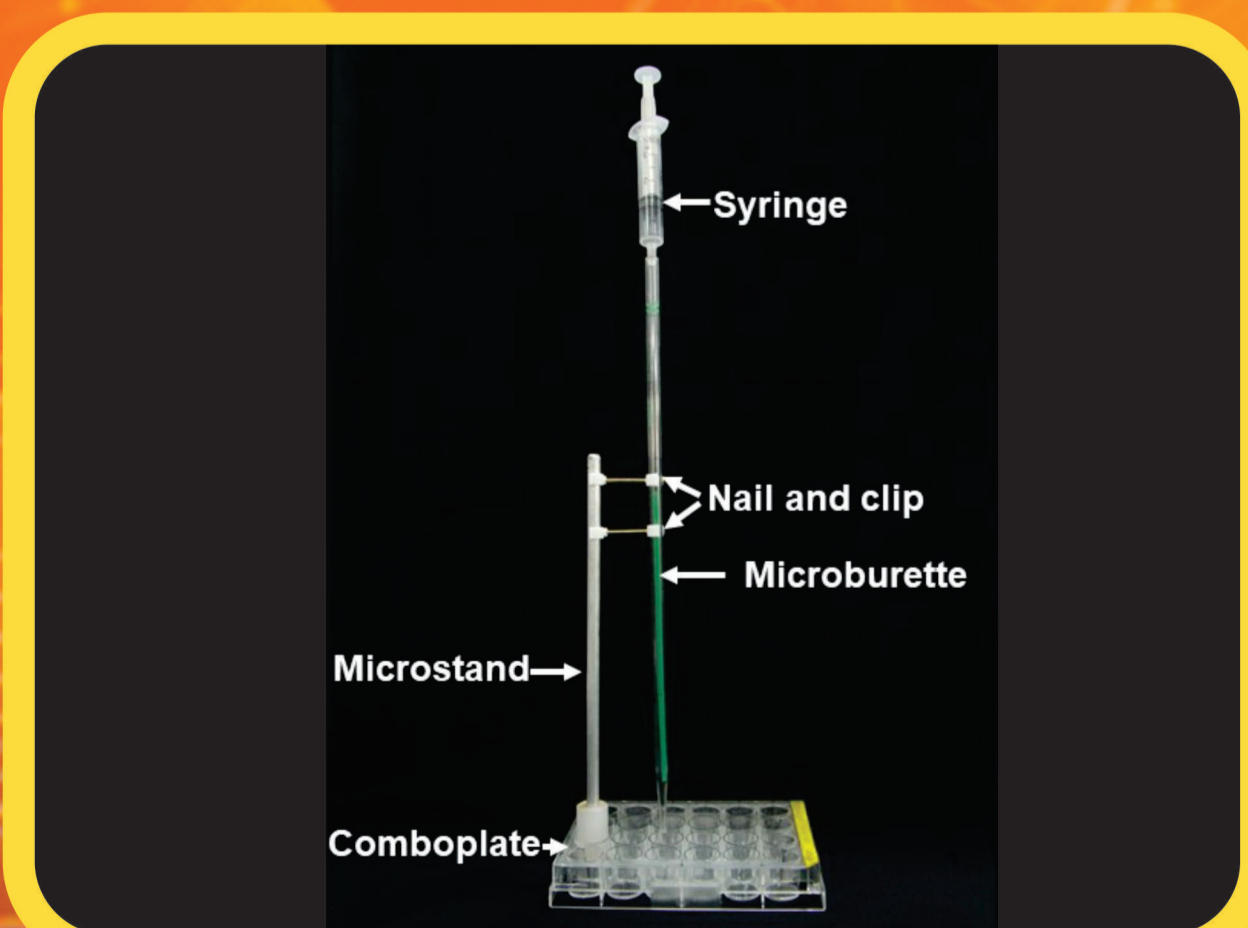
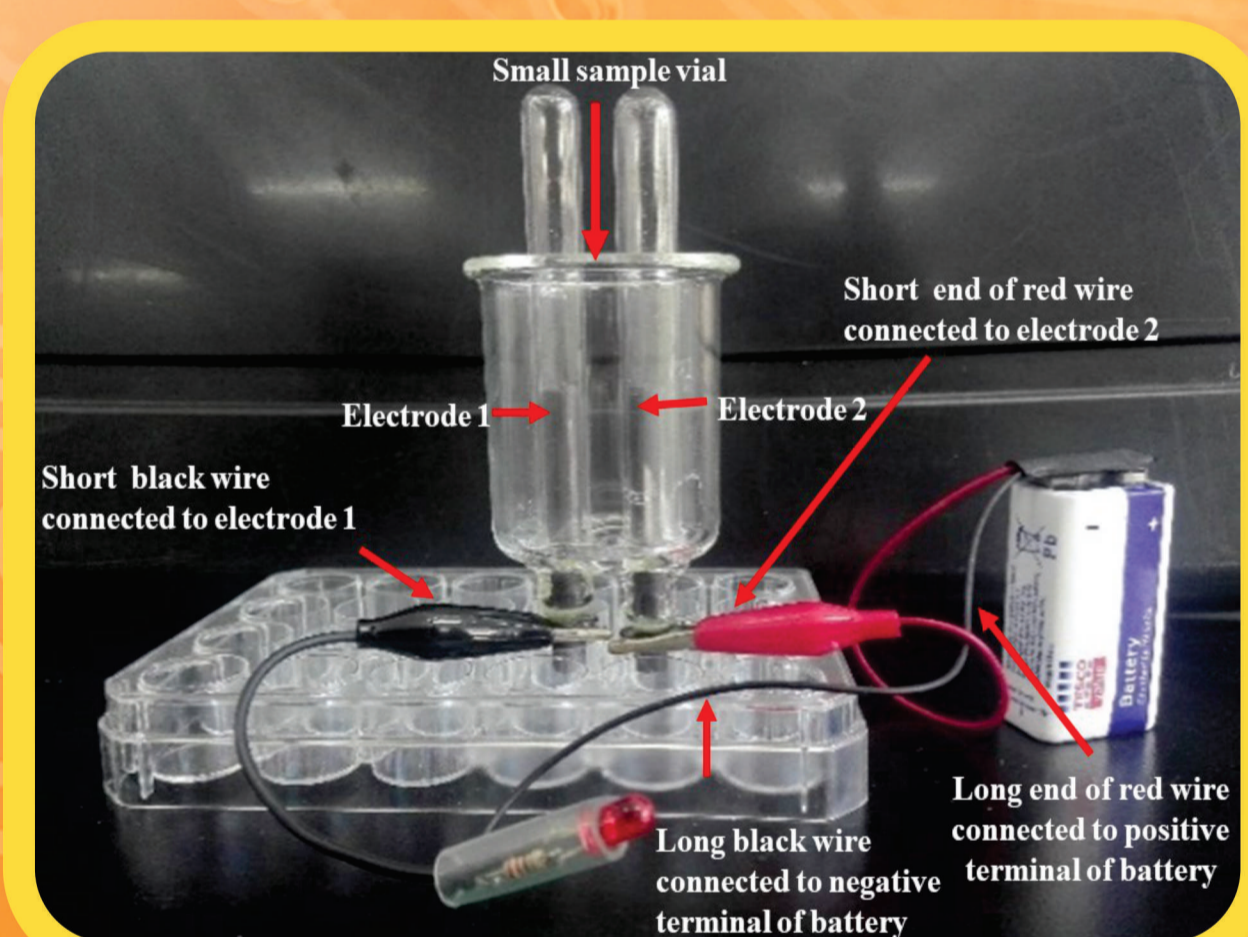
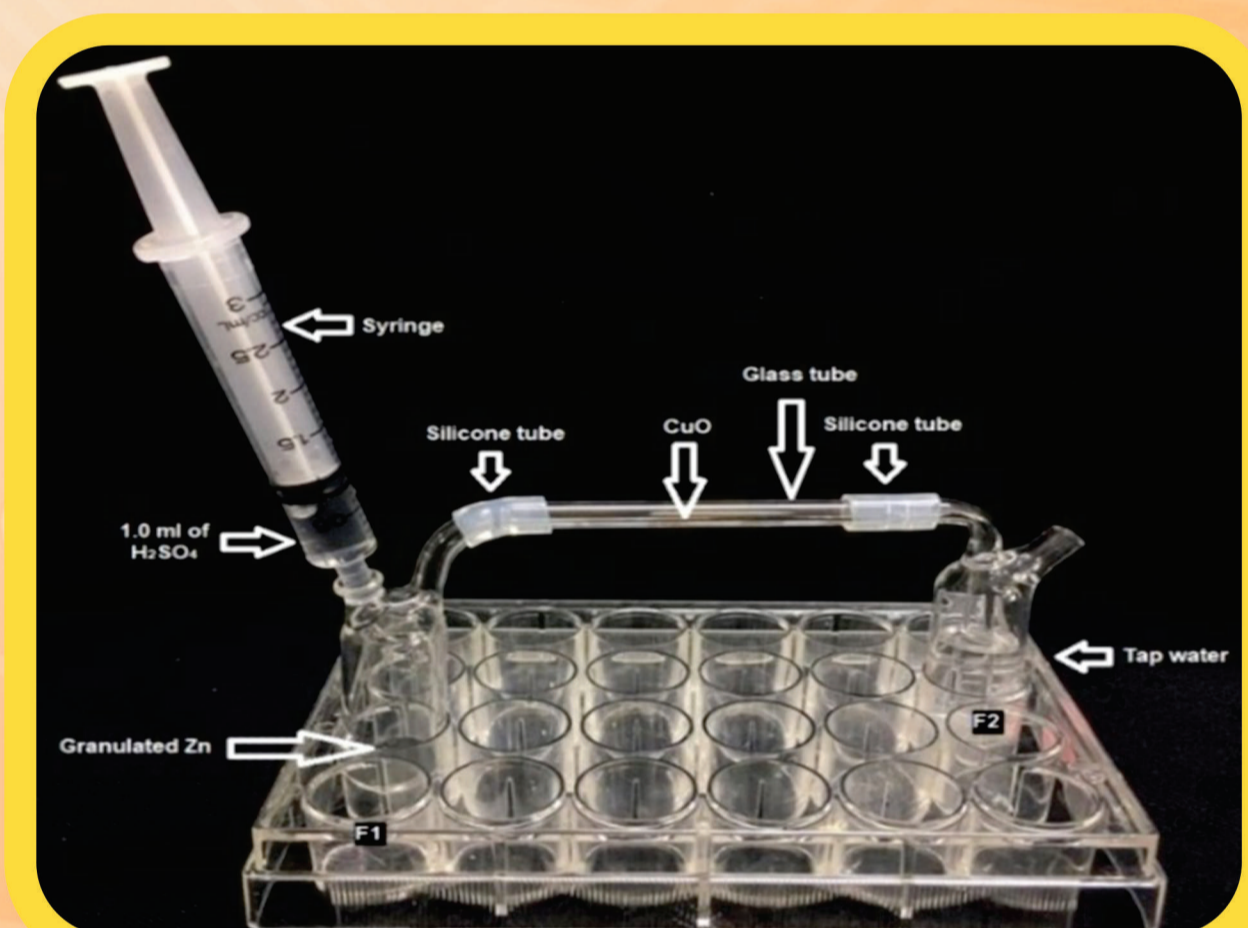
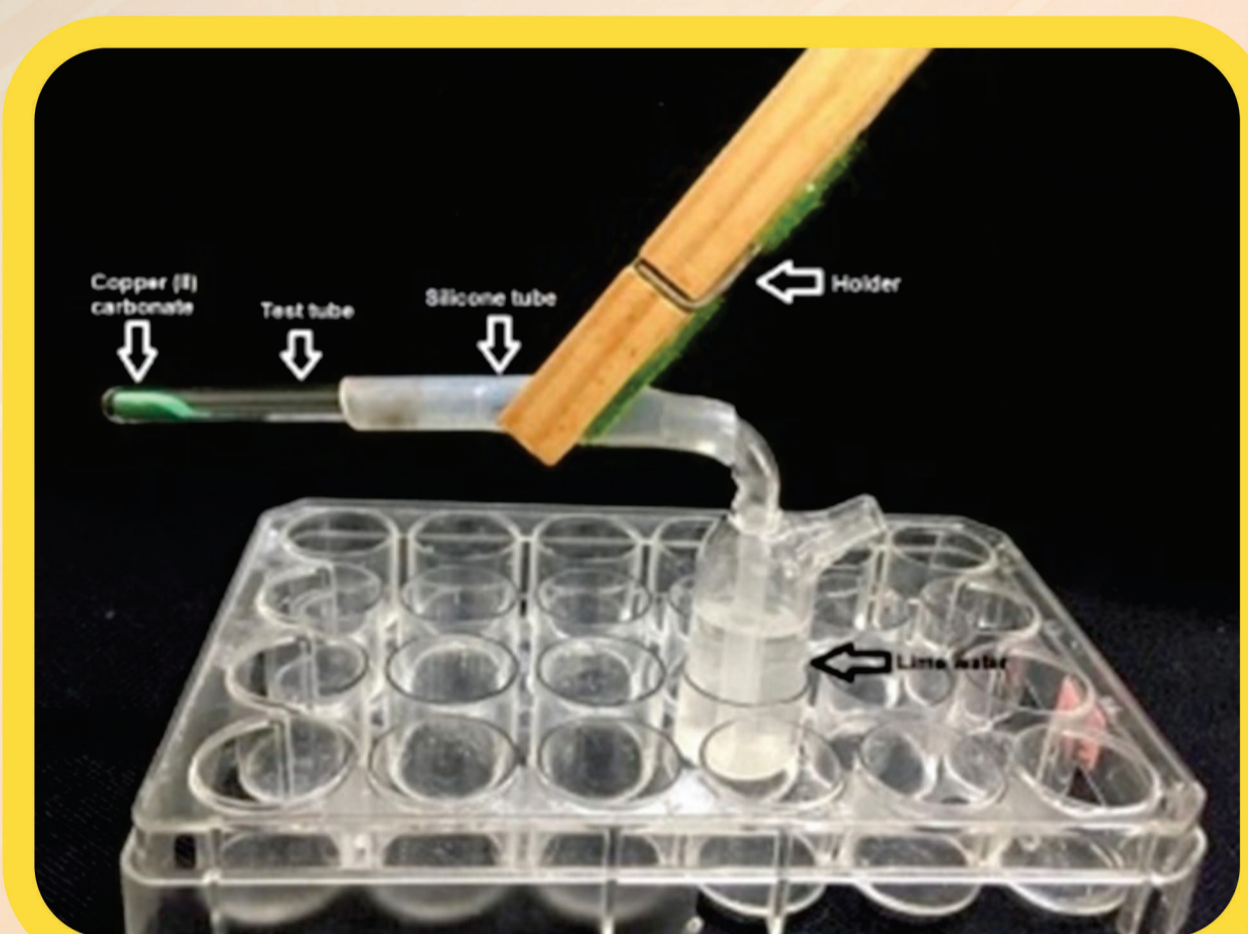
Mohd Nazeef Ahmad
Wan Zulilawati Wan Zulkpli
Ami Mardiana Othman
Nur Ainina Abdollah
Alia Syazana Roslan
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MYCHEM KIT



Problem Statement

Interest in science among students in Malaysia continues to decline over the past years. To a certain extent this has something to do with how science subjects are taught at school. Hands on session can help to develop the interest and increase their understanding to otherwise “difficult” science subject. However, many teachers no longer conduct chemistry experiments due to the lack of facilities, expensive chemicals and safety issues.

Novelty & Inventiveness

- Introduces the concept of learning and teaching chemistry using miniaturized apparatus and chemicals in small amount.
- Adapted to Malaysian Standard Curriculum syllabus (Forms 4 & 5)

Applicability

- Safe and economical
- In pair or individually
- Anywhere, in a lab or a classroom

Product/Technology Readiness

- TRL 7
- Sold more than 54 kits

Research Achievement

- 2 Grants: University-Community Engagement Grant (1001.PKIMIA.AUPSE00116) and MRUN-Translational Research Grant (304/PKIMIA/656205/K145)
- 1 Paper: International e-Journal of Community and Industry Engagement (IeJCIE)-(May 2019);
- 2 Oral Presentations at International Conference
- Advisor to Schools-Akademi Sains Malaysia-USM STEM Projects
- 1 PhD student graduated
- Gold Medal in 4th International Innovation Design and Articulation, i-IdeA2018

Intellectual Property

- 9 copyrights

Industry/Business Partner/Academic Partner

- N/A

Commercialization Potential

- Secondary and tertiary education levels
- Asean countries with similar interest in STEM education

Level of Impact

- Used and adapted in USM Chemistry Practical Year 1 courses
- National STEM programme

Presentation and Other Strength

- Conducted more than 40 workshops and hands on sessions

Contact Person:

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