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INVENTION AND INNOVATION EXHIBITION

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INVENTION AND INNOVATION EXHIBITION (I-JaMCSIIIX) 2023

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International Jasin Multimedia & Computer Science Invention and Innovation Exhibition



HANA'S Map

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Abstract—The Ministry of Education Malaysia (KPM) has introduced the i-Think Mind Map as a 21st-century learning technique aimed at encouraging students to engage in critical thinking and gain a deeper understanding. However, challenges have been identified in past studies, particularly regarding students' attitudes towards Science education. Negative attitudes such as a lack of interest can hinder students' progress and their willingness to think critically (KBAT). Studies have shown that some students tend to memorize concepts or facts without engaging in deeper thinking. Research findings indicate that this situation requires teaching aids to stimulate students' cognitive development. Therefore, Hana's Map has been designed to help improve students' understanding of Science subjects and increase their interest. The development process of Hana's Map follows the ADDIE Model, which involves five phases: Analysis, Design, Development, Implementation, and Evaluation. Hana's Map was provided to 10 respondents consisting of Year 5 and Year 6 students studying Science subjects. The findings show a 43% improvement in the Pre-test compared to the Post-test after using Hana's Map. Furthermore, through interviews, it is evident that they are becoming more interested in learning Science and are able to enhance their understanding. Overall, the use of teaching aids such as Hana's Map can enhance students' understanding and High-order thinking skills in Science subjects, thereby supporting 21st-century education and students' development in schools.

Keywords—21st-century Education, Science and Technology, Teaching Aids.



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