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**ENHANCING STEM LEARNERS' RESEARCH OUTPUT AND ENGAGEMENT  
THROUGH PROJECT SPARK (SHOWCASING PROJECTS AND  
ABSTRACTS TO RECOGNIZE KNOWLEDGE)**

**LUCKY IVY V. VISTO, Ph.D**

**Teacher III**

Tuy Senior High School

luckyivy.viaro001@deped.gov.ph

**ABSTRACT**

This study explored the impact of Project SPARK (Showcasing Projects and Abstracts to Recognize Knowledge) on enhancing the research output and active participation in scientific inquiry of Grade 12 STEM learners of Tuy Senior High School during SY 2024-2025. The project provided students with a unique opportunity to showcase their research projects, present their findings through abstracts, and engage with a wider academic community. The initiative aimed to foster skills in scientific presentation, critical thinking, and teamwork, while highlighting the practical applications of research in the real world. By emphasizing student-driven research, the project encouraged learners to engage deeply with the research process, enhancing their ability to transform complex ideas into clear and meaningful outputs.

Through a descriptive approach, the study focused on observing and documenting the experiences of the Grade 12 STEM learners before and after their participation in Project SPARK. It highlighted the development of their research design, data interpretation, and abstract writing skills. Additionally, the study examined how participation in the project helped

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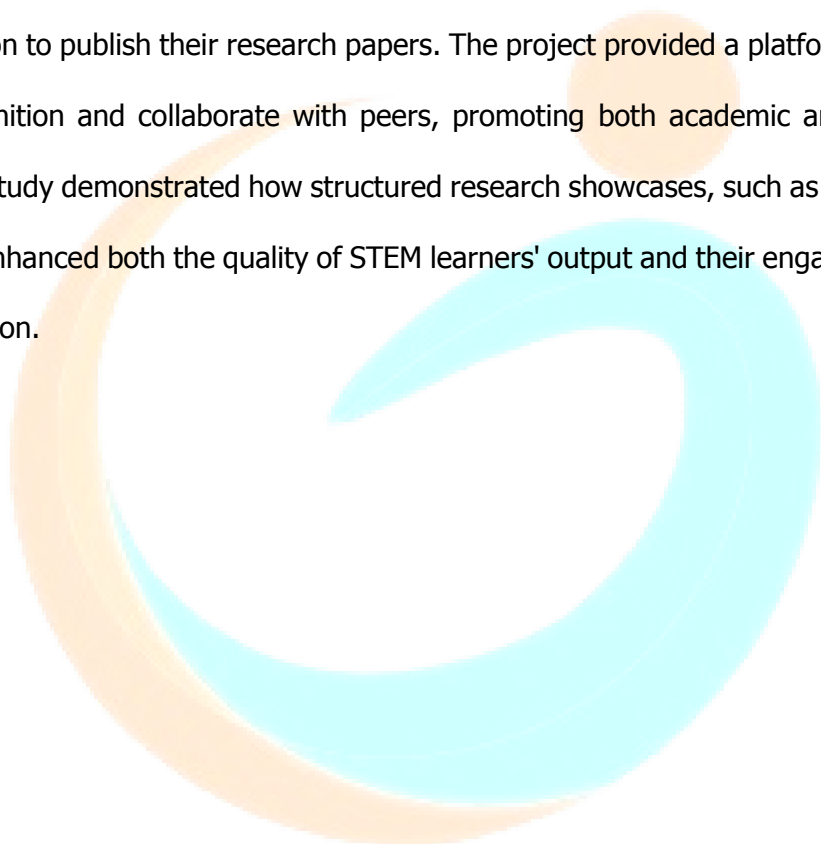
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learners build confidence, motivated them to engage in science fairs and technology exhibitions and STEMAZING, and inspired them to publish their research papers.

The findings of the study revealed that Project SPARK not only improved the technical research skills of the Grade 12 STEM learners of Tuy Senior High School, but also boosted their confidence, fostered active participation in science-related events, and strengthened their motivation to publish their research papers. The project provided a platform for students to gain recognition and collaborate with peers, promoting both academic and professional growth. This study demonstrated how structured research showcases, such as Project SPARK, significantly enhanced both the quality of STEM learners' output and their engagement in high school education.



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