

## **Projectile Motion: Surveying High-School Students understanding after Using column vector.**

The objective of this study was to improve student's understanding and problem-solving skill for high-school students in the topic of projectile motion. This work shows a new but conventional and important representation. We used the column vector to teach grade-10 students at a school in Bangkok in academic year 2020. After finishing the topic of projectile motion, the test was given to 48 students. The post-test results revealed that the former group performed better in solving problem. In addition, students who learned with column vector realized more that the situation in the problem was two dimensions.

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