

Legos in the Classroom

Ryan Oliver Jeff Chiampi

Measuring the Level of Student Engagement when Introducing Hands-on Programming Projects in a First Year Programming Course

Objective

Determine the effect on student engagement with the introduction of hands-on assignments in the classroom.

Background

Ohio State University has had success engaging students in introductory programming courses by incorporating projects that manipulate physical components and read from sensors. (Toms & West, 2013)

Method

In order to measure engagement, data was collected throughout the Fall semester from 10 consenting students enrolled in Computer Science 200 (a first-year programming course for engineers involving the use of MatLab) at Penn State Wilker-Barre through the administration of 3 online surveys and 2 inperson interviews.



Figure 1, Lapic MindStorm Built by Students.

Classwork Performance Improves

Most Frequently Used Words - Interview 1

- the anti-arrivate and assignments.



Most Frequently Used Words - Interview 2



Results

- Students exposed to hands-on projects in the classroom see an increase in engagement.
- Increased engagement leads to students becoming more likely to study and complete homework assignments.
- Exposure to hands-on projects sees an increase in students doing well on tests and assignments as a result of higher engagement levels.
- Hands-on assignments see students viewing class as "fun," good," and seeing themselves as "involved."

Conclusion

The introduction of hands-on assignments in the classroom improves student engagement by increasing student interest inside and outside of the classroom. Hands-on exercises are an effective tool for classroom learning.

Acknowledgements

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Balletences

Tomptate modified from http://www.uniting.orgr.pou.edu parties.html

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Thorng, E., Gascar C., & Anderson, M. (2004). "The practical application of 1850" MINOSPORMS" rebotics lets; does it extense undergraduate computing students' engagement in brancing the last programming language?"

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web this little book is about tensor analysis as einstein s philosophers stone the absolute differential calculus is called nowadays i have written it though with an eye not toward general relativity but to continuum mechanics a more modest theory that attempts to predict the gross behavior of the masses of matter we see and use