

Looking at the effect of adding in a computational thinking activity on the mastery of the high priority learning standards of a curricular unit.

The whole purpose of this project is to improve learning and foster better ties between the various subjects that student's take in school. Going back to the prior literature review on computational thinking (follow link here) I have found that computational thinking has a number of effects on learning. It affects problem solving abilities, student confidence, and creates deeper learning in the subject. At the moment, our staff has been dealing with a lot of change. I cover that more in this blog post (link here). For that reason, I am limiting my research to be of a benefit to me, and more importantly, to the staff so that they can see a direct benefit from this work.



WHAT

15 Your

RESEARCH

DESIGN

It will be hard for other teachers to see something as intangible as "problem solving skills". By focusing in on the impact the computational thinking activity will have on specific learning targets in class, teachers will be more likely to participate. To that end, having a project that can be tied directly to summative assessment results will help teachers see through the "whirlwind".

WHAT IS YOUR FUNDAMENTAL RESEARCH QUESTION

To move toward utilizing computational thinking activities and assessments that generate positive impacts on learning targets in core content areas.

Does the integration of Sphero robots improve students' mastery of learning targets?

For this research, I am focusing the question even more. I will be

