***Research on PBL and Student Achievement***

**Overview:** Below you will find a table linking PBL to gains in student achievement and skills. I have included embedded links for further exploration. I hope you find this research useful in your own justification for using Project Based Learning at your school site.

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| **Study** | **Finding** | **Link/ Attached File** |
| University of Michigan Study | Significant gains in acquisition of social studies content and informational reading test scores | [Michigan Study Summary](https://www.edutopia.org/article/new-study-shows-impact-pbl-student-achievement-nell-duke-anne-lise-halvorsen)  See attached “University of Michigan Study” for full abstract. |
| University of Montana study on 4th grade classroom | Increase in motivation and classroom behavior | [Link to document](http://scholarworks.montana.edu/xmlui/bitstream/handle/1/3587/RedmondK0814.pdf;jsessionid=9DA12E1EBFAD3149C2DF3708B011F254?sequence=1) (see pages 33-43 for conclusion) |
| Mathematics at British Secondary Schools | Increase in mathematic skills and applied knowledge. Three times as many students pass national exams. | [ACSD publication](http://www.ascd.org/publications/educational_leadership/feb08/vol65/num05/Project-Based_Learning.aspx) |
| Vanderbilt University Study | Increased student performance on solving word problems and positive attitudes towards math. | [Link to publication](http://www.ascd.org/publications/educational_leadership/feb08/vol65/num05/Project-Based_Learning.aspx) |
| University of Honolulu | Significantly higher results in psychology exams | See attached “Psychology PBL Course” for full abstract. |
| Cumulative Research Gathered by BIE | Increase in student achievement, mastery of 21st century skills like problem solving and collaboration. Improved motivation, equity and teacher efficacy. | See attached “BIE Research Summary” |