EDUC 450 Inquiry Project Title: The Role of Formative Assessment in Math Education and the Effectiveness of Exit Slips

Audrey. (2020, July 14). *What do I do now? What to do with the exit tickets after your students hand them in. Reviewing, Feedback, Grading, and More!* Math by the Mountain. https://mathbythemountain.com/2020/07/14/what-do-i-do-now-what-to-do-with-the-exit-tickets-after-your-students-hand-them-in-reviewing-feedback-grading-and-more/

This blog post covers the importance of the feedback portion of exit slips. The author emphasizes the importance of using the data to improve practice, getting the students to buy in with motivators like marks, and utilizing data to keep learning transparent with students and parents. I will use the article to highlight the role of exit slips after they have been collected.

Bafile, C. (2004). *"Let it slip!" – Daily exit slips help teachers know what students really learned*. Education World. https://www.educationworld.com/a_curr/profdev/profdev091.shtml

The article includes accounts/interviews of various teachers and their experiences with implementing exit slips into their routines. The author emphasizes the "non-threatening" nature of the activity and the ease of creating and managing slips by taking advantage of templates.

Burkhardt, H., & Schoenfeld, A. (2019). Formative assessment in mathematics. In H. L. Andrade, R. E. Bennett & G. J. Cizek (Eds.), *Handbook of formative assessment in the disciplines* 1st ed., pp. 35-67). Routledge. https://doi.org/10.4324/9781315166933-3

I will use this chapter to define the structure of formative assessment and its purpose in a math classroom. The authors highlight the "principle of design" when constructing formative assessments as well as its benefits in helping students understand misconceptions in their learning. The chapter also notes the flaws of clearing up student confusion using quick re-teaching.

Edutopia. (2015). Exit Tickets: Checking for Understanding [YouTube Video]. In *YouTube*. https://www.youtube.com/watch?v=PWUxFSXEsC8

The video shows the implementation of exit slips in high school classrooms and its effects on the teachers' practices. In this case, the teachers are able to plan and cater their teaching methods by identifying the strengths and weaknesses of their students using data-driven reasoning. The video also notes software that makes and collects exit slips. Video will be used to highlight the effective and efficient nature of exit slips in teacher planning.

Francis (Skip) Fennell, Beth McCord Kobett, & Wray, J. A. (2016). *The Formative 5*. Corwin Press.

Part 1: Why Formative Assessment and Chapter 5: Exit Tasks will be used in my project. This book also explores the role of formative assessments in math classrooms and their ability to increase discussion, critical thinking and feelings of efficacy. Furthermore, it proposes the technique, of "exit tasks" as a strategy to formatively assess. This technique mimics key elements of exit slips. The book also answers FAQ such as how often to use exit tasks and level of demand.

Izor, K. (2019). The Effect of Exit Slips on Student Motivation within the Classroom. *Honors Projects*. https://scholarworks.bgsu.edu/honorsprojects/446

This article explores the role of exit slips on student motivation and the ability to reinforce information. The author notes that exit slips promote student autonomy and reflection. This article will be used to explore the effects of exit slips on student learning and their feelings of self-efficacy.

Leigh, S. R. (2012). The Classroom is Alive with the Sound of Thinking: The Power of the Exit Slip. *International Journal of Teaching and Learning in Higher Education*, *24*(2), 189–196. https://files.eric.ed.gov/fulltext/EJ996265.pdf

This article outlines how exit slips work and their role in helping student review, absorb and foster ownership of their thoughts. This article will be used to discuss some of the results of exit slip implementation including higher vocabulary reflection, theoretical connections, action reflections, question reflections, and connections made between the material and student daily life.

Why I Quit Exit Tickets. (2019, November 25). Integrated Social Studies. https://integratedsocialstudies.com/2019/11/25/why-i-quit-exit-tickets/

This blog post highlights some of the cons of integrating exit slips into one's teaching methods. Some of these include lack of time, added workload for students and superficial responses when not graded for marks. These cons will be addressed using evidence from other readings.