

Request #: 530 - PSY - Thesis

Measuring SRL Differences During Mathematics with SRL Microanalysis

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Background

The knowledge basis regarding SRL and ADHD has traditionally been obtained through self-report questionnaires and teacher ratings. While these measures have provided a strong foundation of knowledge regarding SRL, there are several caveats to consider when measuring SRL. For example, self-report questionnaires are completed retrospectively, which can result in memory errors. Furthermore, self-report questionnaires and teacher ratings usually aggregate SRL across many tasks and contexts, but research indicates that SRL varies across tasks and contexts. As such, SRL researchers have more recently used SRL microanalysis, which is a structured interview, measuring thoughts and behaviors during a specific task, within a specific setting. SRL microanalysis utilizes targeted interview questions to identify SRL within forethought, performance-control, and self-reflection. The purpose of this project is to use SRL microanalysis to examine SRL differences between students with ADHD and their typically developing peers. To do so, we will situate five SRL microanalysis measures (i.e., self-efficacy, strategic planning, strategy use, self-monitoring, and causal attributions) within a mathematical problem-solving task to answer the following research questions:

Sample

128 participants (64 w/adhd symptomology, 64 w/out)

Hypothesis

RQ1: Do students with clinical ADHD symptomology differ significantly from TD students regarding forethought strategic planning and self-efficacy? RQ2: Do students with clinical ADHD symptomology differ significantly from TD students regarding performance-control self-monitoring and strategy use? RQ3: Do students with clinical ADHD symptomology differ significantly from TD students regarding self-reflection causal attributions?

Progress

have not started the study yet, we just need help with the statistical analysis plan

Request

I need help in planning the analysis for the study. We are considering chi-square or logistic regression.

Timeline

As soon as possible, so that we can begin collecting data