

Evaluation Plan

Why we chose this method:

Our team used cognitive walkthrough for our 'within-team' formative evaluation. We chose to use the cognitive walkthrough protocol because as a team we decided that the method of having one or more evaluators work through a series of tasks and ask a set of questions from the perspective of the user is the best and most efficient way of evaluating our prototype.

Think Aloud Protocol:

Your name is Anna and you are the parent of a kindergartener, Melanie. Melanie is easily distracted and has trouble focusing in an online setting. Melanie's school has just realized the "Kidz Kit", an interactive take-home kit that will allow Melanie to have some form of interactive education. The kit contains a variety of learning games and puzzles designed to provide Melanie an engaging way of learning the material from her classes at a distance. In this session you and Melanie will work together to tackle some of the education games in the Kidz Kit.

Tasks for Anna and Melanie:

- Have Anna and Melanie locate the contents for each class and level (Tests high-level organization of the kit)
- Have Melanie walk through a solo exercise (test if child can work through exercises labeled "independant")
- Have Anna and Melanie walk through a guided exercise (tests if parent and child can walk through exercise labeled "collaborative")

How we measured our goals:

After the process, we conducted an evaluation by asking the following questions without leading the users:

1. On a scale of 1-10, how easy was it to complete a guided educational activity on the student's own?
2. On a scale of 1-10, how easy was it to complete a guided educational activity with/alongside a parent or guardian?
3. One of the goals of the team was to create a solution to increase engagement amongst young students. Do you as the user feel like this requirement was met?

Top 5 Changes to our Prototype:

1. Edit parent checklist to buy based on what supplies the student actually uses during a guided educational activity
2. Simplify direction sheet to guide young students easier and reduce any confusion
3. Make the kit more lesson friendly by reducing/increasing the lengths of how long it takes to complete a certain activity/lesson in order to keep students still engaged and learning
4. Allow teachers flexibility to mix and match items to cater to their own curriculums rather than having set kits
5. Provide an option for schools to sign up so that all their teachers can use our tools. Also a subscription option so that, for example, students can get one kit a week for a set price.

Script for Anna and Melanie:

The script for the 3 tasks the participant should do: (3 tasks listed above)

Once the school has delivered the kit to your home, examine the contents of the kit. There is a list provided which explains which material belongs to which class/exercise. The list also has a section for materials that the parent will have to provide. For now, choose one of the 'at-home' exercises for your child and go through the instructions together. There will be a provided time estimate for the activity. Sit your child down and allow them to complete the activity by themselves. The goal of this is to see how well the child is able to complete the activity alone and stay engaged throughout. Afterwards, choose one of the exercises that requires a guardian and work through this exercise together. The goal of this is to see how well the exercises work at home and how easy the kit is to use.