

Product's name: *Mindspark Mathematics*

Grade ranges evaluated: *Grades 1-2, 3-5, 6-8, 9-10*

Date of evaluation: *Evaluated by the Tulna team January 2021*

Company's response to the evaluations:

1. What are some of the new insights gained or product design changes envisioned based on the Tulna evaluation reports?

We found the following insights from the Tulna evaluation reports relevant to our work –

1. Feedback thorough answer explanations and using a conversational style for engagement with content:

- To consider improving answer explanations and share the multiple processes/methods of solving a problem wherever applicable.
- Using simple and short sentences for explanations of questions of grades 1 and 2.
- Make use of images and animations and minimize text and reading in the answer explanations.
- Study research literature, conduct a study within Mindspark to find if the conversational style of display answers leads to better engagement and learning. Use the study to drive further changes.
- Add voice-overs for content (question and answer explanations) for grades 1 and 2
- A periodic content audit to check if the explanations are detailed for all questions
- Add a check/ prompt message/ some cool-down mechanism to discourage answering questions at an unreasonable pace. Mindspark already gives a prompt and cool-down time upon a user getting a series of questions incorrect in a session.

2. Enhance the student friendliness/support from a design point of view

- We will consider exploring the possibility of taking the student to the previous question when there is any system error.
- Error messages will be re-looked to make them student-friendly.
- We will identify areas in the design to make it conversational for the student.
- Identifying areas where students can have autonomy in choosing parts of the topic
- Assessing the need to have an explicit display of the student's progress across topics

3. Making the insights for teachers more actionable

- Having actions for teachers to take from the different data points that are shown in the strength, weakness, and common wrong answer reports.