

Title: Design Web UI for kindergarten students to teach mathematics.

1) Who are your Target Audience? and their age group?

My target audience consists of kindergarten students from age 2 to 5

2) Is choosing colors a challenging task? Why?

Yes, it is a bit difficult to choose colors. The effective use of color and graphics in children's website is one of the most important aspects of design to ensure that you deliver optimal content and a memorable user experience to young users. Younger children, in the range of two to three years old, generally prefer bold, primary colors and high contrasts in graphic layouts that evoke exploration and discovery. Children's attraction to bold colors and high contrasts extends all the way to their fifth year. Young users should always be able to discern where to click or tap or at least where to start exploring an application, regardless of the style of the highly immersive graphics in a layout's background and foreground.

3) What things have you kept in mind while designing the website?

- Keeping the UI clean (children get distracted by visual clutter)
- Using iconography (they identify with experiences that are recognizable)
- Using vivid, exciting colors
- Avoiding integrated advertisements (kids find it harder than us to distinguish content from ad banners, which quickly lead them away)
- Consider using animation and sound (this is the only age group for which video seems ideal)
- Relate content to characters they know (like from TV)
- Provide games that educate and attract their attention
- Reinforce their actions through emotion (telling them that they did a good job encourages repetition)

4) Write down your design goals which you have thought earlier while doing the above activity.

- Making website highly visible and highly memorable
- Text should be large and easy to read
- Links should be easy to click

- There should be little animation or movement that might be distracting
- Website navigation should be straightforward

5) Link to websites you have referred to analyses the competition?

<https://www.abcya.com/grades/k/numbers>

<https://www.education.com/>

<https://www.coolkindergarten.com/>

6) Is understanding the psychology of Kindergarten Students important?

It is very necessary to understand the psychology of Kindergarten Students. Young children want to be entertained and don't necessarily have a direct goal in mind, which gives us the opportunity to engage them through exploration and interaction (rather than just putting them on the fastest route to a solution). If the journey is colorful and educational and engaging, then it will likely be a successful visit.

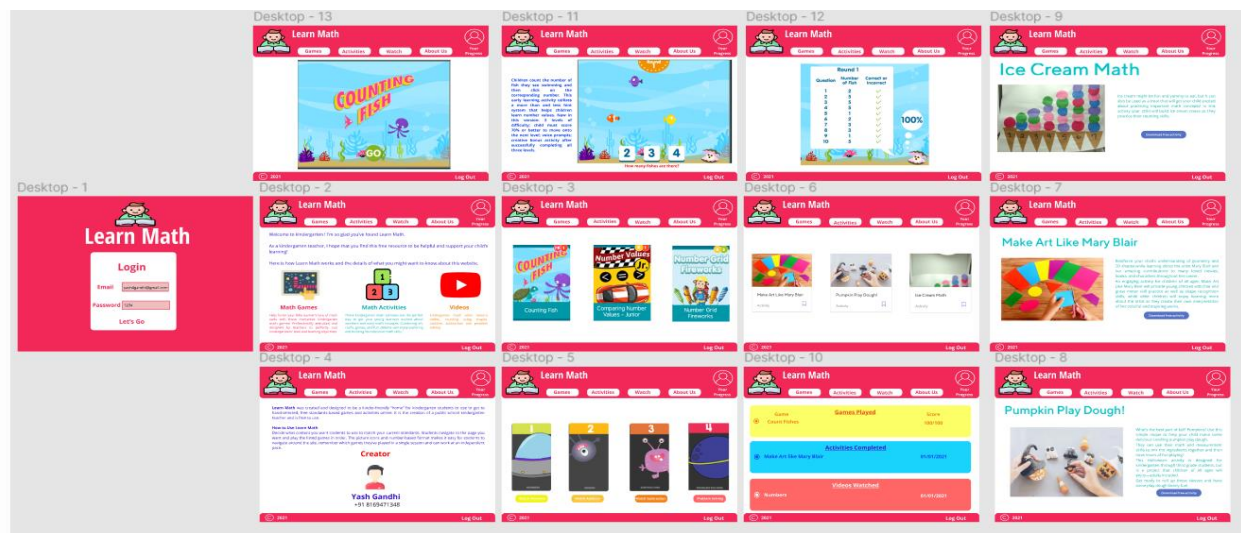
The following are the design features to be kept in mind while designing websites for kindergarten students.

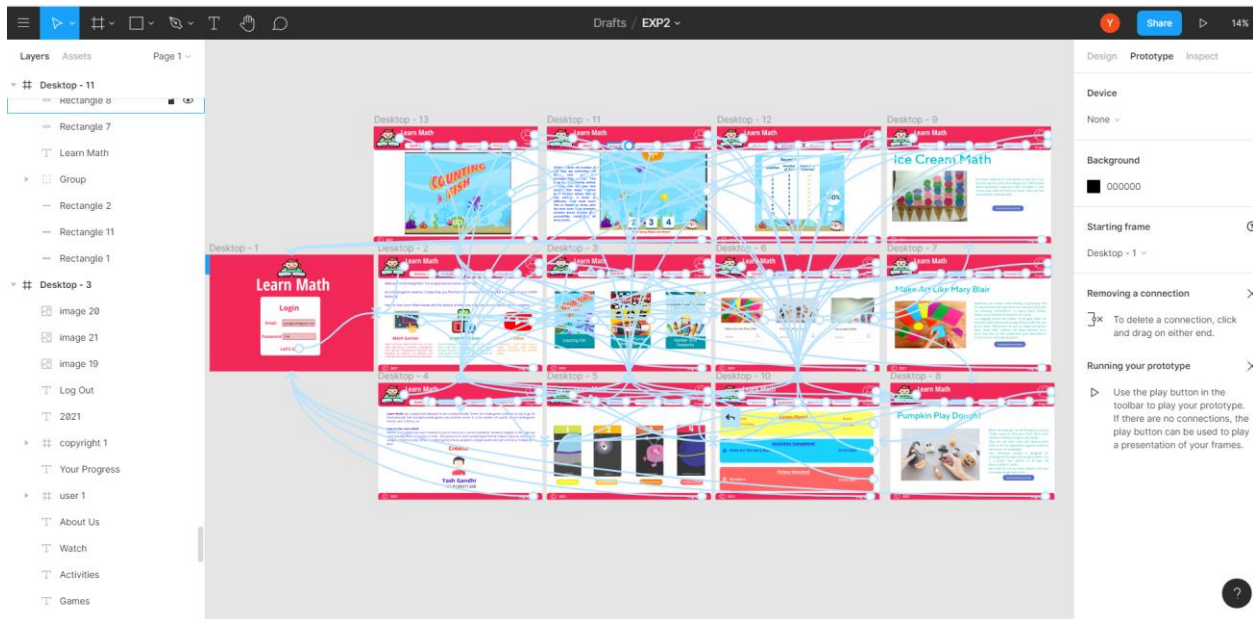
Changes	Functions	Kid's Requirement
Same	Following UI conventions	Preferred
	User control	Preferred
	First reactions	Quick to judge site (and to leave if no good)
Small Difference	Willingness to wait	Want instant gratification
	Multiple/redundant navigation	Very confusing
	Reading	Not at all (youngest children) Tentative (young children)

	Readability level	Each user's grade level
	Scrolling	Avoid (young children)
	Search	Bigger reliance on bookmarks than search, but older children do search
Big difference	Goal in visiting websites	Entertainment
	Exploratory behavior	Like to try many options Mine-sweeping the screen
	Physical limitations	Slow typists Poor mouse control

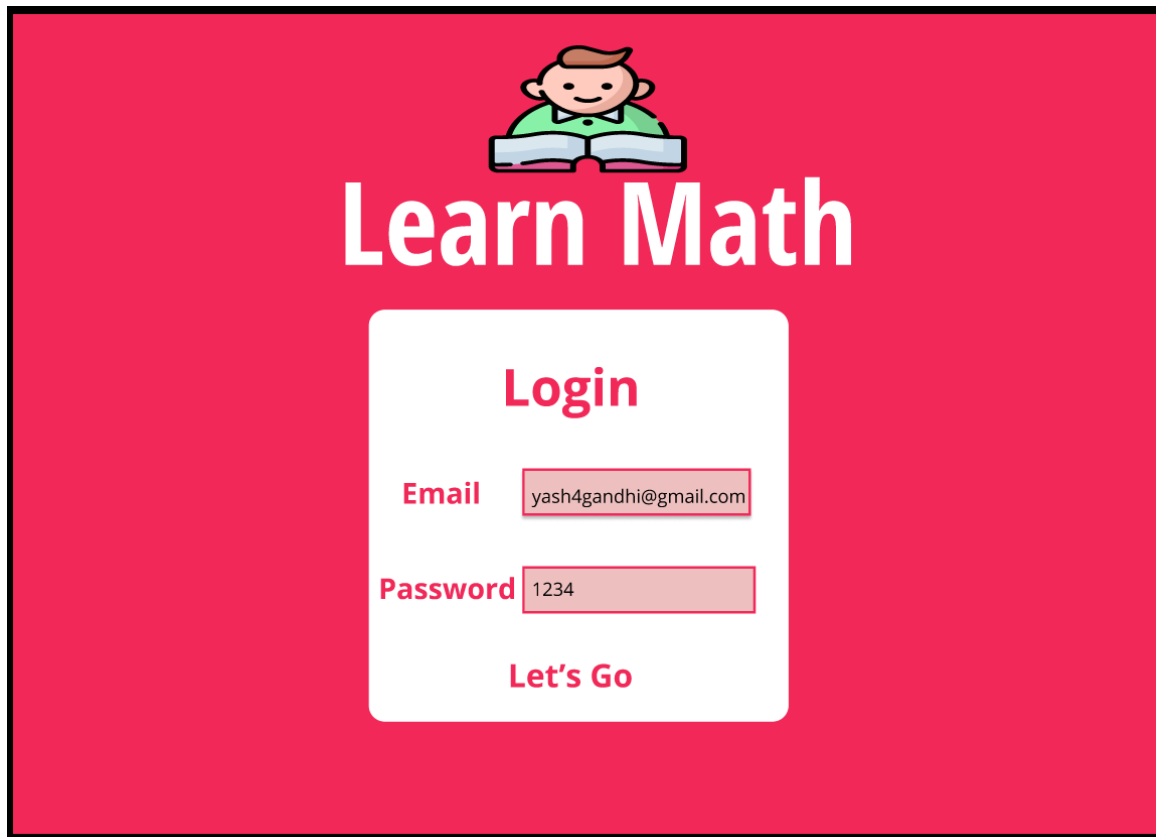
Kids spend a lot of time online, and their cognitive and physical limitations present many challenges to them when they do so. Pair that with poorly designed content and dark patterns, and you have a bad mix. As designers on the web, we have a responsibility to create things that empower kids and make them smarter, not the opposite.


7) Screenshots of UI made Prototype:






Pages:





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Your Progress

Welcome to kindergarten ! I'm so glad you've found Learn Math.


As a kindergarten teacher, I hope that you find this free resource to be helpful and support your child's learning!

Here is how Learn Math works and the details of what you might want to know about this website.




Math Games

Help foster your little learner's love of math early with these interactive kindergarten math games! Professionally animated and designed by teachers to perfectly suit kindergartners' level and learning objectives




Math Activities

These kindergarten math activities are the perfect way to get your young learners excited about numbers and early math concepts. Combining art, crafts, games, and fun, children will enjoy exploring and building foundational math skills.




Videos

Kindergarten math video lessons online, counting using shapes, addition, subtraction and problem solving




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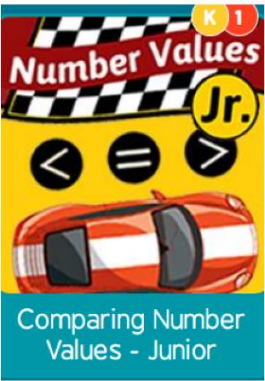
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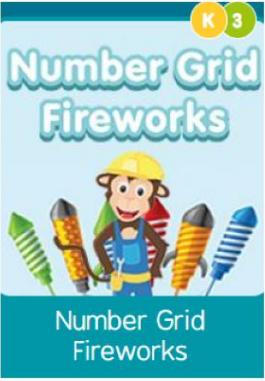
Your Progress




Counting Fish



Comparing Number Values - Junior

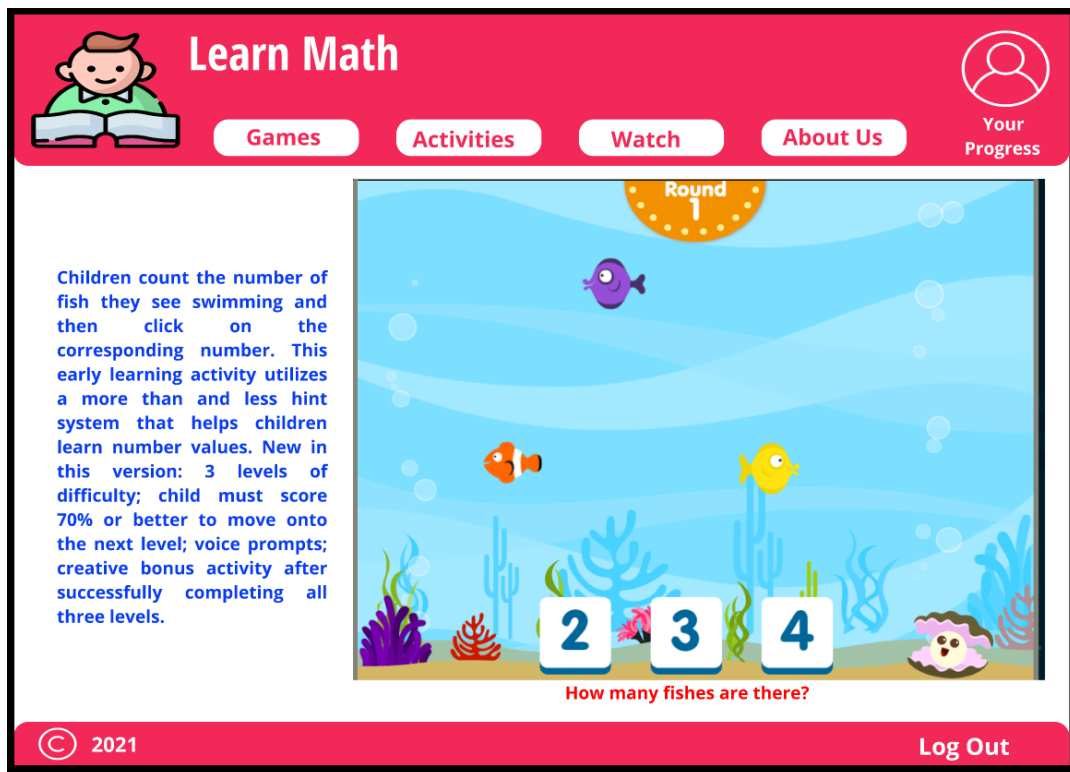
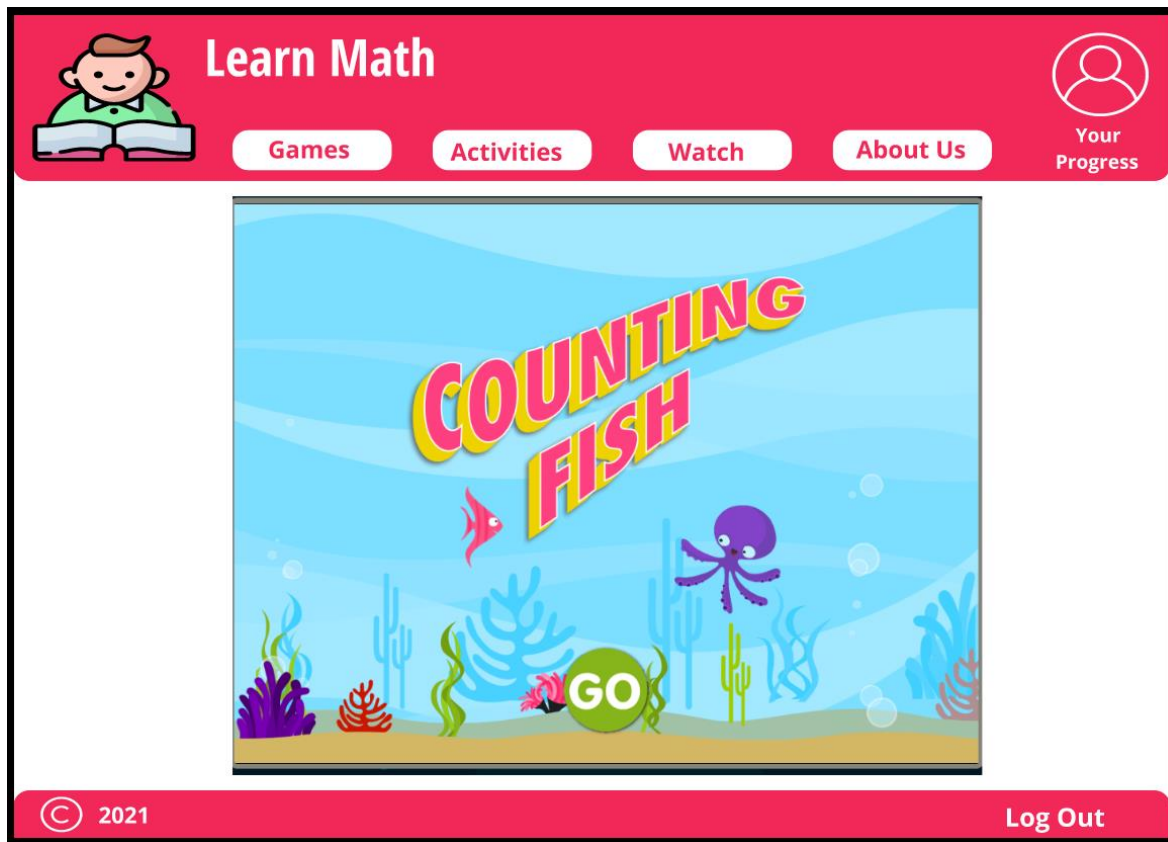



Number Grid Fireworks



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Your Progress

Question	Number of Fish	Correct or Incorrect
1	2	✓
2	5	✓
3	5	✓
4	5	✓
5	1	✓
6	2	✓
7	3	✓
8	3	✓
9	1	✓
10	5	✓


100%

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Your Progress



Make Art Like Mary Blair


Activity






Pumpkin Play Dough!


Activity







Ice Cream Math

Activity




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Your Progress


Make Art Like Mary Blair




Reinforce your child's understanding of geometry and 2D shapes while learning about the artist Mary Blair and her amazing contributions to many loved movies, books, and characters throughout her career.

An engaging activity for children of all ages, Make Art Like Mary Blair will provide young children with fine and gross motor skill practice as well as shape recognition skills, while older children will enjoy learning more about the artist as they create their own interpretation of her colorful and inspiring works.


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Your Progress

Pumpkin Play Dough!





What's the best part of fall? Pumpkins! Use this simple recipe to help your child make some delicious smelling pumpkin play dough. They can use their math and measurement skills to mix the ingredients together and then have hours of fun playing!

This Halloween activity is designed for kindergarten through third grade students, but is a project that children of all ages will enjoy—adults included.

Get ready to roll up those sleeves and have some play dough family fun!


[Download free activity](#)

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Your Progress


Ice Cream Math



Ice cream might be fun and yummy to eat, but it can also be used as a treat that will get your child excited about practicing important math concepts! In this activity your child will build ice cream cones as they practice their counting skills.


[Download free activity](#)

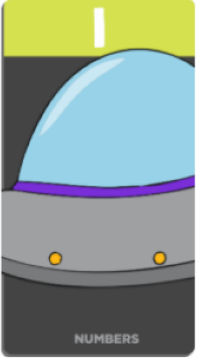
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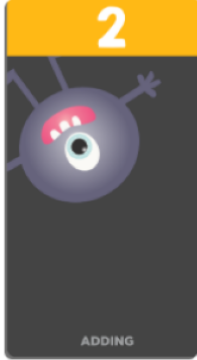
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Your Progress




NUMBERS

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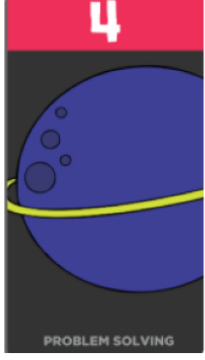
ADDING

[Watch Addition](#)




SUBTRACTING

[Watch Subtraction](#)



PROBLEM SOLVING


[Problem Solving](#)


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Your Progress

Game	Games Played	Score
 Count Fishes		100/100

Activities Completed

 Make Art like Mary Blair	01/01/2021
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Videos Watched

 Numbers	01/01/2021
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Your Progress

Learn Math was created and designed to be a kinder-friendly “home” for kindergarten students to use to get to hand-selected, free standards-based games and activities online. It is the creation of a public school kindergarten teacher and is free to use.

How to Use Learn Math
Decide what content you want students to use to match your current standards. Students navigate to the page you want and play the listed games in order. The picture icons and number-based format makes it easy for students to navigate around the site, remember which games they’ve played in a single session and can work at an independent pace.

Creator



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8) Link of Figma file :

<https://www.figma.com/file/XaGsFpPCsjin6G7EWRYVcT/EXP2?node-id=14%3A152>

9) List the Good and Bad Designs which you have found in the activity analyses.

Based on the websites I mentioned before I found the following good design features across the 3 websites:

1. Easy Navigation
2. Responsive design
3. Performance: Quick to show something
4. Feedback about progress
5. Grid based layouts

Based on the websites I mentioned before I found the following bad design features across the 3 websites:

1. Too Many Elements Cluttering the Page
2. Random use of colors.