



GamePlan

The only classroom you need.

GamePlan

executive summary

Problem

Current online classrooms lack a **focus** on education **all-in-one place**, and as a result are arduous to use and lead to a **confusing** experience.

Online learning has **deprived** students of the valuable **social interactions** and **collaborative learning** opportunities of in person schooling.

Due to the pandemic, **parents** have unexpectedly had to take on a **teacher role** at home and **struggle** to **balance** this new role with their busy lifestyle.

Solution

GamePlan is an online learning environment that places the entire classroom experience in one place, and **streamlines communication** through **contextual messaging** between parents, teachers, and students.

It engages students through **gamified lessons**, and **collaborative learning** which encourages **social interaction** and fun.



Features

Universal platform

A **universal online classroom** creates a **smooth** and **easy** learning platform for teachers, students, and parents alike.

Gamified learning experience

The student game world offers fun lessons and **collaborative educational games** for students. They are rewarded for their work on assignments with **visual customization** options to show their progression.

Contextual messaging

Contextual messaging offers a **direct way** for all parties to **communicate** during lessons and throughout assignments.





Overview

01	Timeline and methods
02	Topic of interest and UX problem
05	Secondary esearch
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Team-19



Colleen

Team Lead
Visual Lead



Jasmine

Information
Architecture Lead



Kelly

Research &
Prototyping Lead



Maik

Interaction Lead



Leo

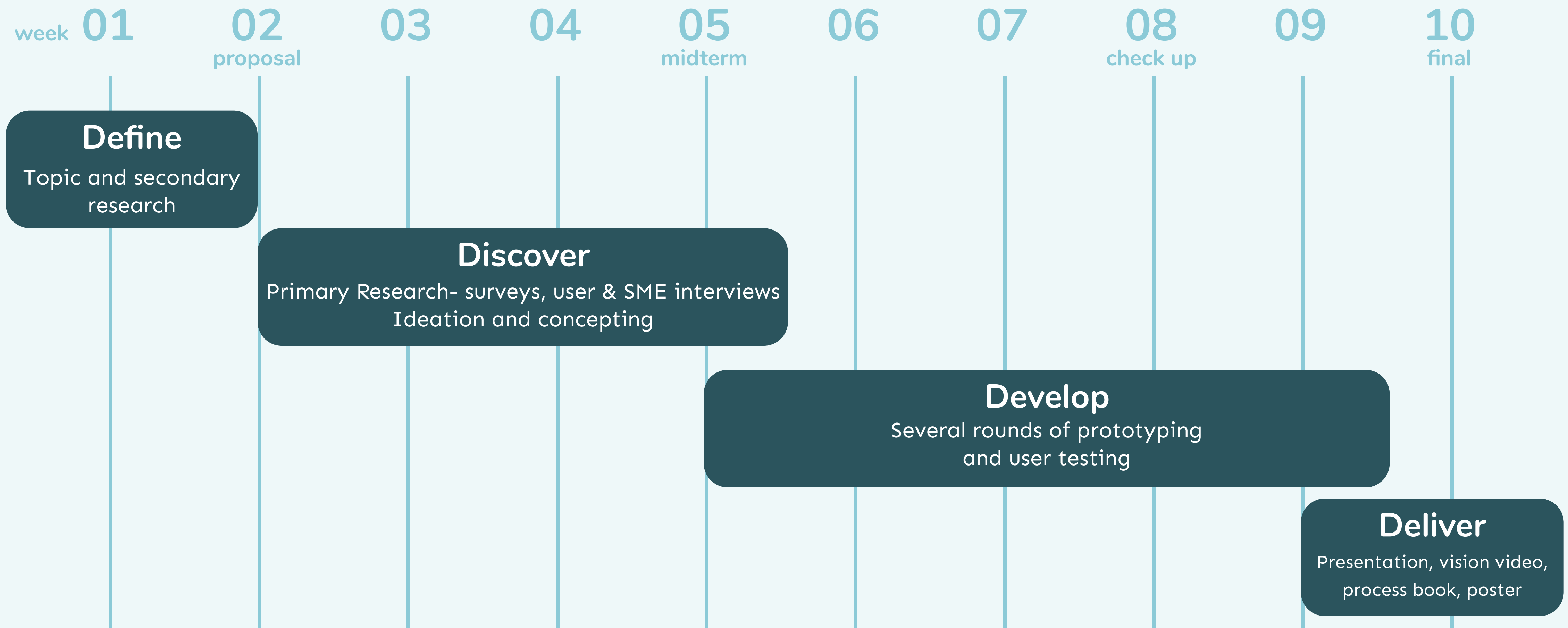
Copywriting &
Product Design
Lead



Max

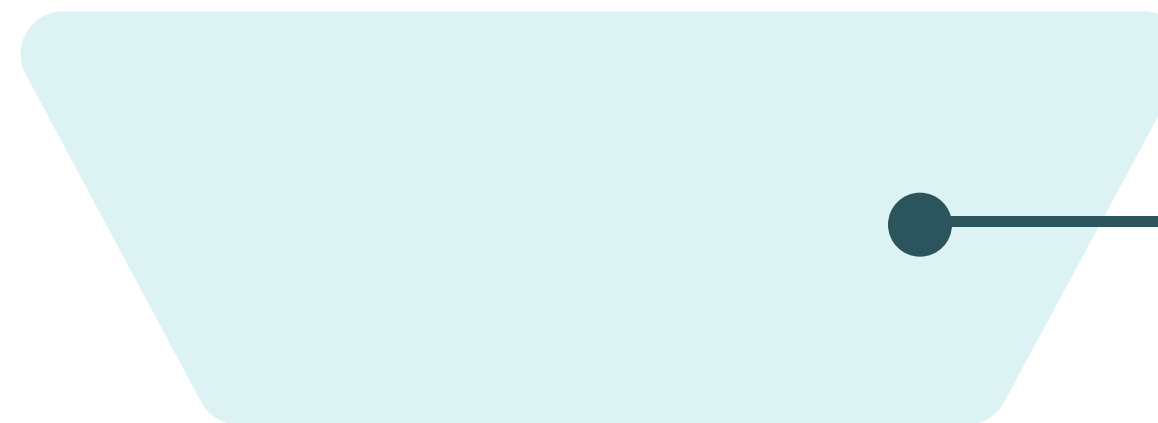
Ideation Lead &
Concepting

01 | Timeline and methods

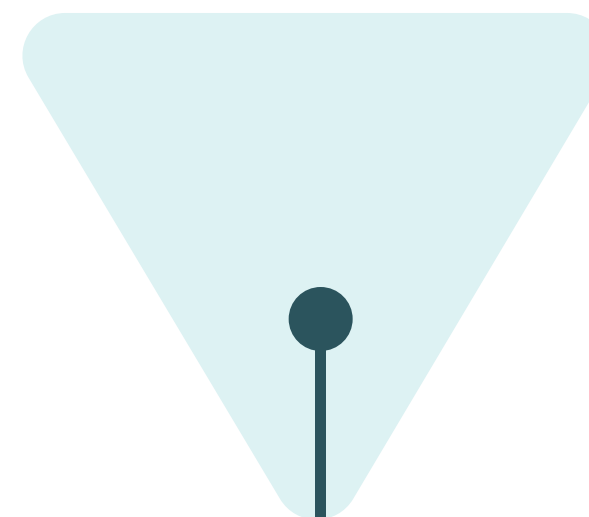


02 | Initial topic of interest

Accessibility during a pandemic



Transportation
Healthcare
Education



Education



Parents' roles in online education

04 | UX problem

Due to the pandemic, **parents** have unexpectedly had to take on a **teacher role** at home and **struggle** to **balance** this new role with their busy lifestyle.

1.1 billion children

are out of school worldwide due to COVID-19 closures

27 million children

grades PreK–5th will be missing out on essential educational, social, and developmental benefits

With parents more involved, online education will be a more supportive and efficient home environment for students to thrive in.

06 | Case study

1

Phase 1 Asynchronous Sessions

Process:
Videos and PPTs

Timeframe:
Daily

Deliverables:
Videos, article links, PDF's,
projects, etc.

2

Phase 2 Asynchronous and Synchronous Sessions

Teacher Support

Process:
Moodle and Screen-Free /
Inbox Free

Timeframe:
1–2 times per week

Deliverables:
Building community, review
content and teacher PD

3

Phase 3 Asynchronous and Synchronous Sessions

Student Support

Process:
Virtual re-teach Sessions,
Languague & Office Hours

Timeframe:
Weekly

Deliverables:
Individualizing student
support

4

Phase 4 Asynchronous and Synchronous Sessions

Assessment & Grading

Process:
Evidence of work &
Redesign Report Card

Timeframe:
Ongoing

Deliverables:
Assignments meet the
standards

5

Phase 5 Asynchronous and Synchronous Sessions

Reflections

Process:
Feedback & Take-Aways

Timeframe:
Weekly/Biweekly Surveys

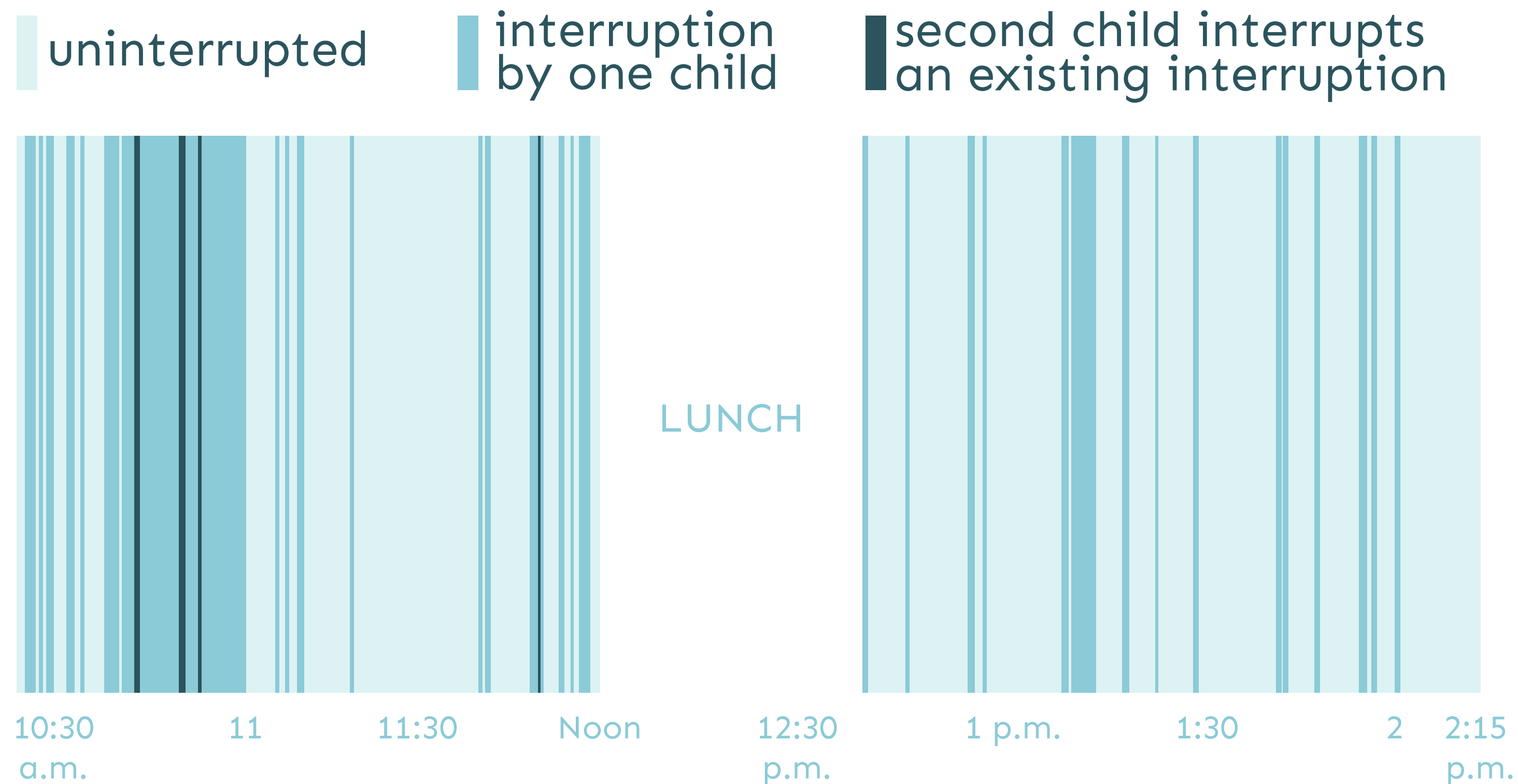
Deliverables:
Data to support projections
for future

“In terms of the ease in adjusting to each phase, thus far teacher and parents seemed to have found Phase 3 more challenging — mainly due to the introduction of the synchronous sessions, and the supporting technology tools.”

07 | Parents teaching from home

Balancing work and parenting in the pandemic

One day, two parents documented how often their two children interrupted a portion of the workday.

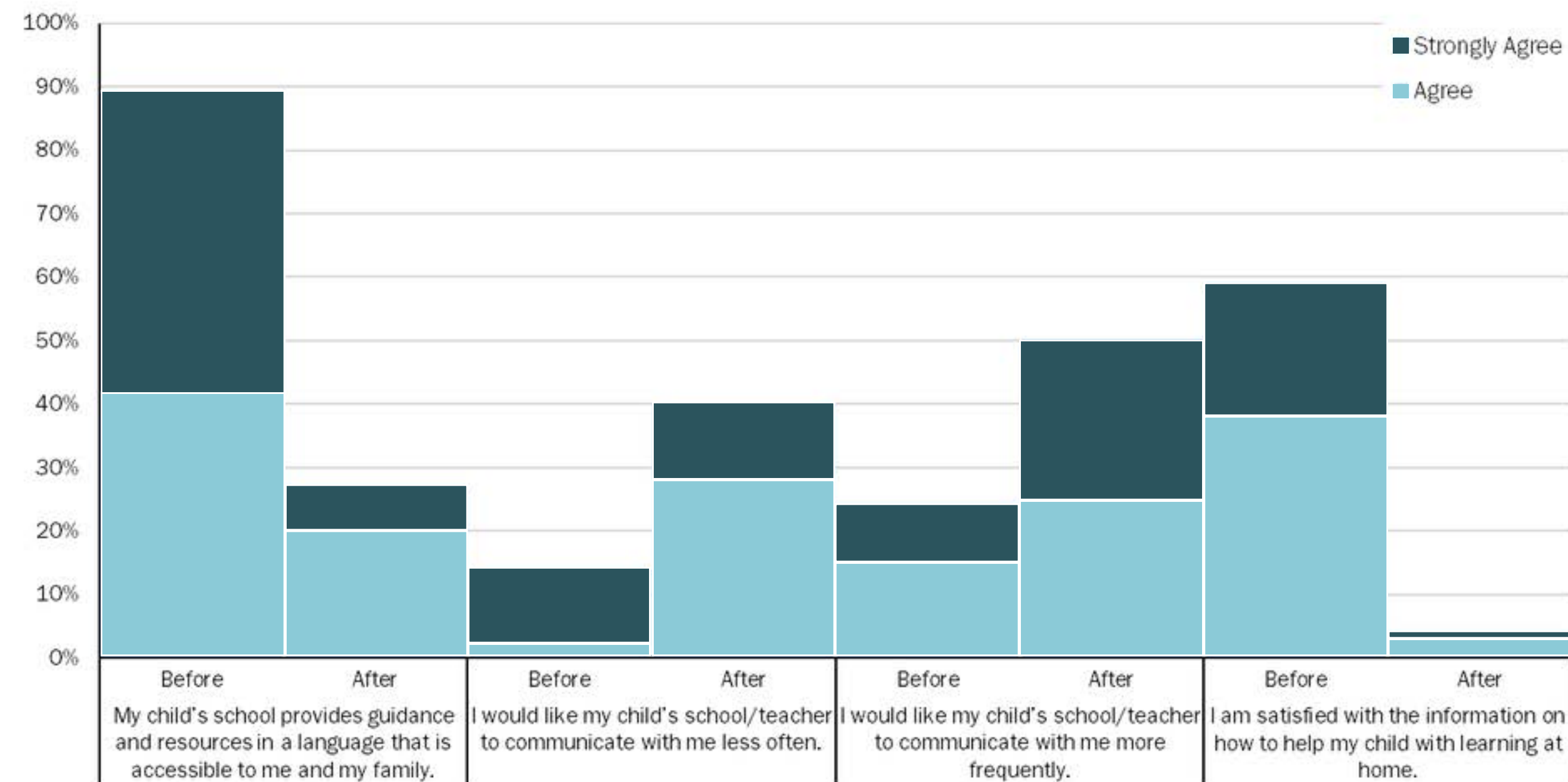


Parents are interrupted an average of **15 times per hour**

Parents' **productivity is decreasing** due to the high amount of interruptions

08 | Parent and teacher communication

Figure 1: Parent agreement with statements about COVID-related school communication



Note: Responses correspond to a single survey asking about parent experiences before and after COVID-19 lockdowns.
Source: Statewide survey of parents conducted by the state of New Mexico in cooperation with Tripod Education.

B BROWN CENTER on
Education Policy
at BROOKINGS

- Families without a computer desire **more communication**
- Families that have access to a computer desire a **more targeted communication**

21,000+ parents in study

09 | Parent and teacher communication

Effective **two-way communications**, such as parent-teacher conferences, are essential factors in building and maintaining the partnership.

Parents and teachers both feel like they are not being heard in an online environment

In a survey, the statement “Digital communication supports the feeling that I’m being heard” was only somewhat agreed on by both parents and teachers.

10 | Pain points and unmet needs

- **Accessibility** to educational tools and materials
- Parents struggle to keep their children focused
- Struggle **adapting** to required technology
- Continued **unpreparedness** for quasi-homeschool
- Lack active involvement in children's online education

... while experiences may vary, these pain points are consistent across parents who work both in and outside thte home

11 | Expected outcomes

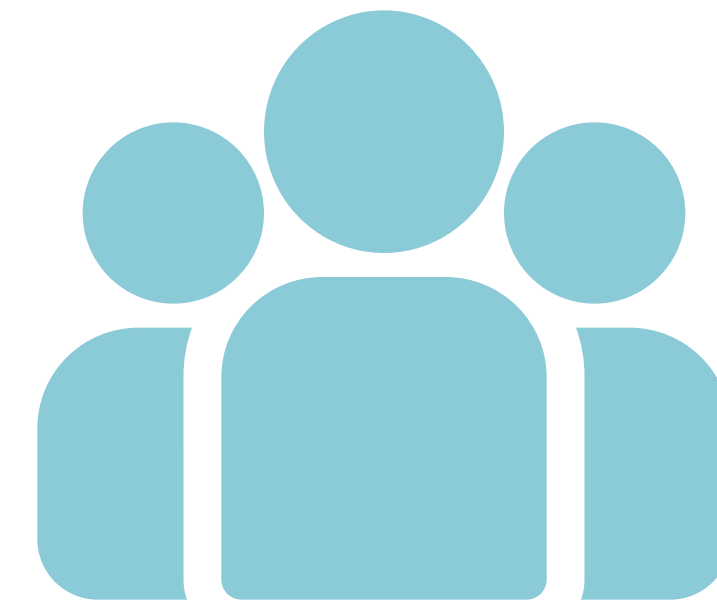
- Supportive educational **community**
- More effective learning for students
- Increase in parent **involvement** and **confidence** in supporting children's education
- Increase in **understanding** of required technologies

- Find main pain-points of parents
- Discover what is keeping parents from effectively helping their children with education
- Why are parents struggling to keep their children focused?
- Why do parents have such a difficult time adopting new technologies?
- What methods have parents used that have worked?
- What are parents doing for work? What are the main things keeping parents from getting or staying involved with their children?



21

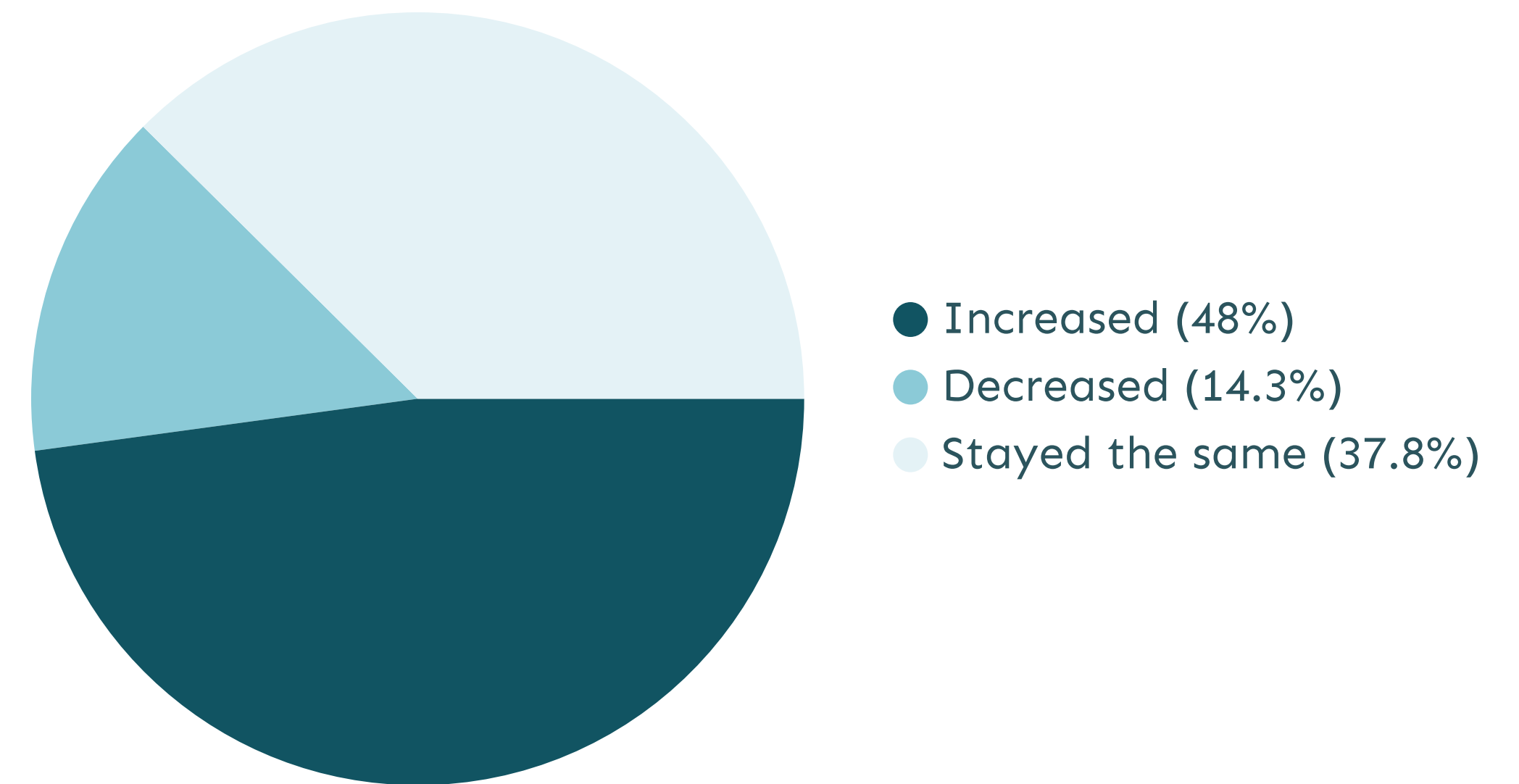
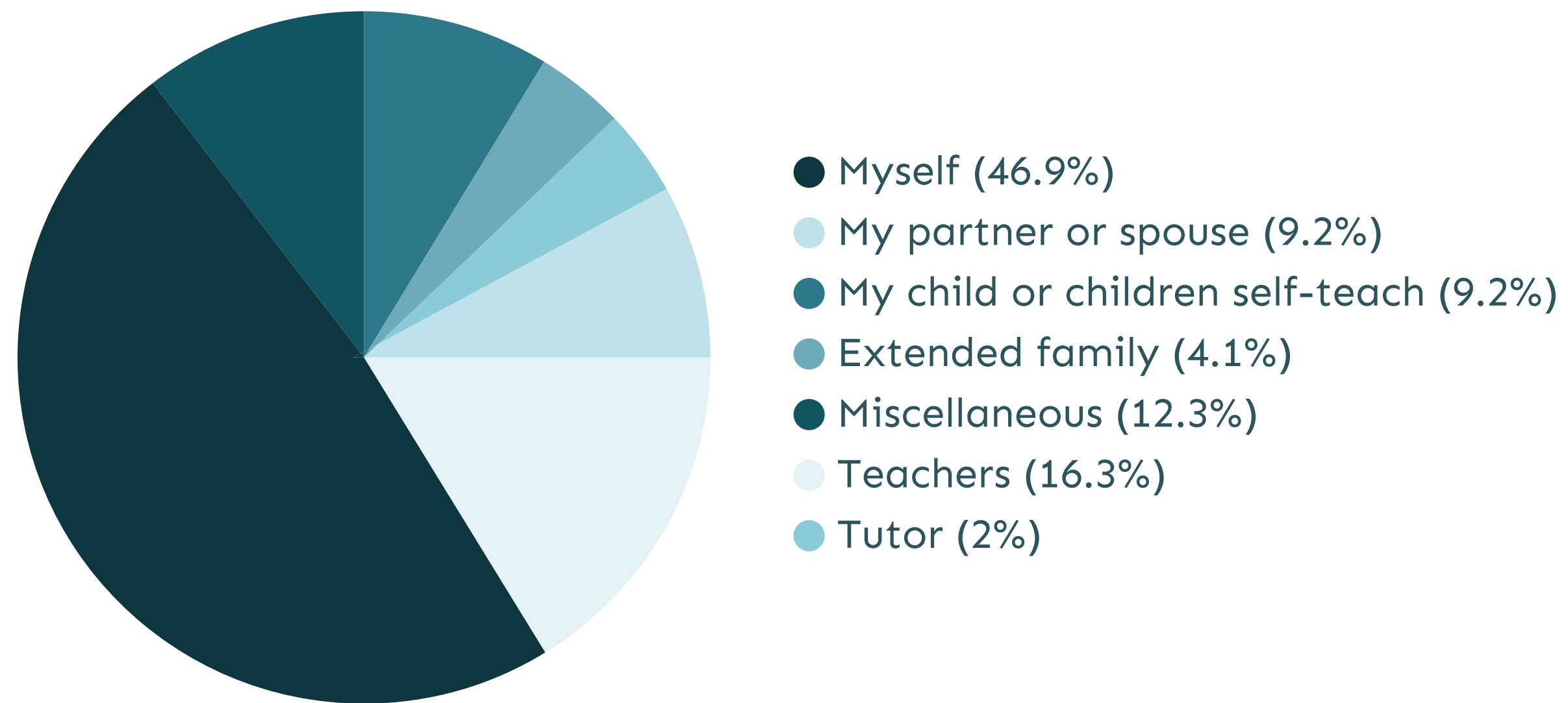
Questions



98

Respondents

14 | Survey results



Parents are the main teachers at home and have relied on increased communication with teachers.

15 | Survey results

How are you aiding your child's education? (select all that apply)



Many parents take on the role of teacher by helping with homework.

11

Demographic
Interviews

- Daily Routine
- Technology
- Adjustments
- Parent/Teacher Communication

14

Interviews

3

Expert
Interviews

- COVID-19 Questions
- Parent/Teacher Communication
- Online Learning

Parents' evaluation based on **mental model of on-ground school**

Parent & Teacher Communication

- Strengthened or weakened during the pandemic
- Dependent on **personal relationships**

Pandemic fostered empathy

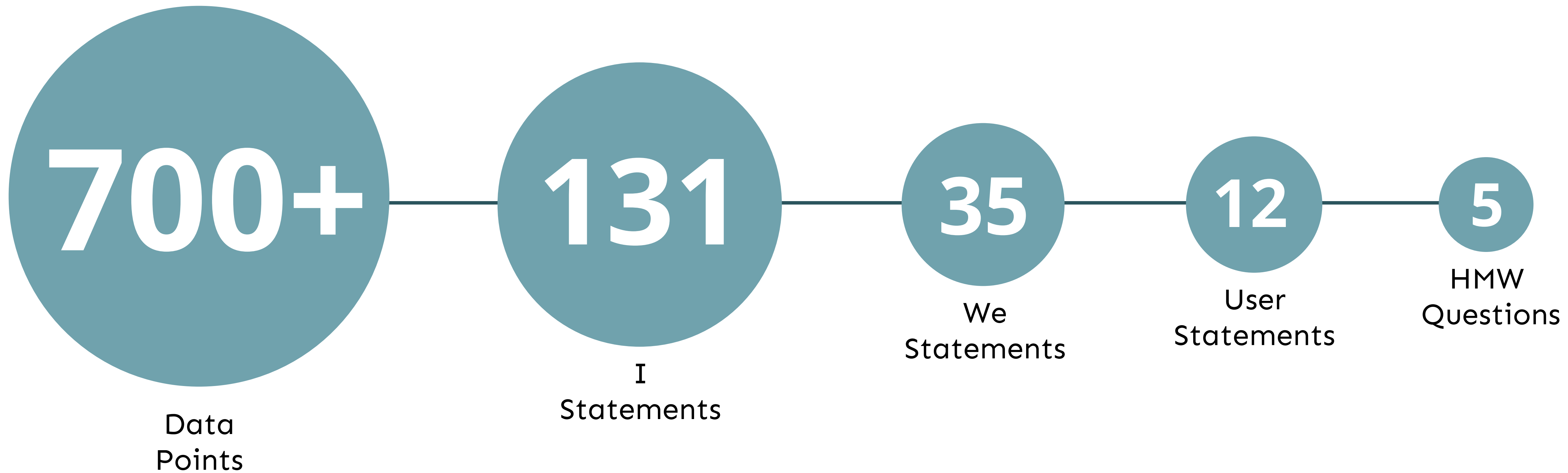
Recurring theme: **balancing work and childcare**

Primarily used digital means of education

- Some supplementary physical methods of learning

18 | Interview insights

- Some teachers missed **1 on 1 time** with students
- Teachers notice students without supervision missed meetings more often
- Takes longer for teachers to develop online lessons
- Replicated social and interactive factors** are important part of online learning for some teachers
- Tracking progress requires **more teacher involvement** in online environment



20 | Takeaways

- Unfamiliar with way child's online school is conducted
- Feel online education is less safe and lacks focus and individualized experience compared to in-person education
- Parents use outside resources to keep an active role in their child's education
- Struggle to balance communication with teachers
- Use multiple platforms for child's online learning
- Feel in-person education is more conducive to their child's social development
- Struggle to balance their work with their child's educational needs

21 | How might we...

...improve upon the social development and structure of the in person education experience through online learning?

...create a system to balance the **busy lifestyle of parents** and the **educational needs of their children**?

...better facilitate **connection** between parents and teachers?

...maintain a **flexible** and **open** educational environment that is easily adaptable?

...create a **single, streamlined** communication platform?

Miss Katie, 32

Teacher



Location
Pawnee, Indiana

Occupation
3rd Grade Teacher

Relationship Status
Single

Bio:

Katie is a third grade language teacher from Indiana. Since quarentine started she has struggled to manage her classroom and keep her students engaged. With the move to online, Katie found it difficult to continue the fun collaborative activities that she had her class enjoy in person, and she misses the individual attention she was able to give each of her students. She wants to foster better communication with the parents of her students, and hopes that she can get them more engaged in their childrens' classroom.



Goals:

- To better communicate with her students' parents
- To give each student more individual attention
- To make her online classroom more engaging

Likes:

- Reading
- Travelling
- Marvel Comics

Dislikes:

- Google Suite
- Interruptions
- TikTok

Jodi Lynn Parker, 34

Parent



Location
Pawnee, Indiana

Occupation
Realtor

Relationship Status
Married

Bio:

Jodi lives with her husband and two children, but rarely has time to spend with them during the day due to her busy schedule as a realtor. Since quarantine began she has struggled to find a schedule that allows her to manage her son's education and stay productive in her job. She tries to stay involved by checking in with teachers and monitoring her child's learning through notifications from the school, but Jodi finds the constant notifications and lack of direct communication from teachers to be burdensome. She hopes that a balanced schedule and better communication can help her play a more prominent role in her son's education.

Motivated Unmotivated

Tech Savy Traditional

Extrovert Introvert

Rigid Adaptable

Goals:

- Balance work and child's education
- Streamline communication with son's teacher
- Use less screen time with her daughter & son

Likes:

- Moscato
- Home projects
- Board games with kids

Dislikes:

- Being sedentary
- Talking over the T.V.
- Her colleagues

Faith Parker, 8

Student



Location
Pawnee, Indiana

Occupation
3rd Grader

Relationship Status
Boys and girls have cooties

Bio:

Faith lives with her parents and sibling in Indiana. She dislikes online learning because she doesn't get to see her friends as often and it doesn't have as many fun activities as when school was in session. She already disliked homework before quarantine, and being in online class has made her hate it even more. Faith wants to be able to socialize with her friends more, and she wants school and learning to be fun again.

Motivated Unmotivated

Tech Savy Traditional

Extrovert Introvert

Rigid Adaptable

Goals:

- Have more fun learning
- Make more friends
- Learn Spanish

Likes:

- Strawberry Milk
- Reading
- Board games with parents

Dislikes:

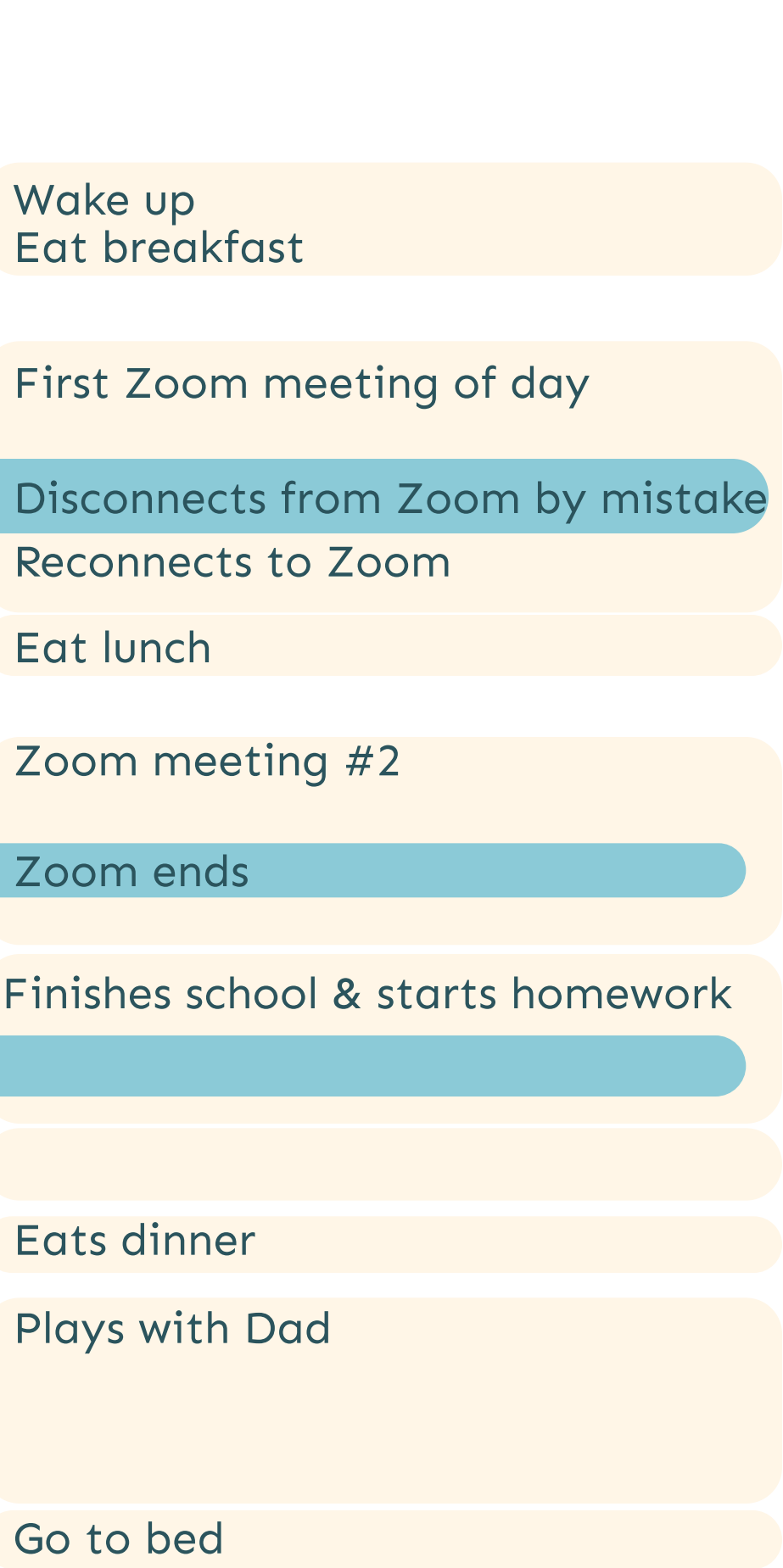
- Homework
- Going to bed early
- Math

25 | Current parent and student journey

Jody Lynn's Schedule



Faith's Schedule



Virtual Play
Date

Social
Goalie

School
Start

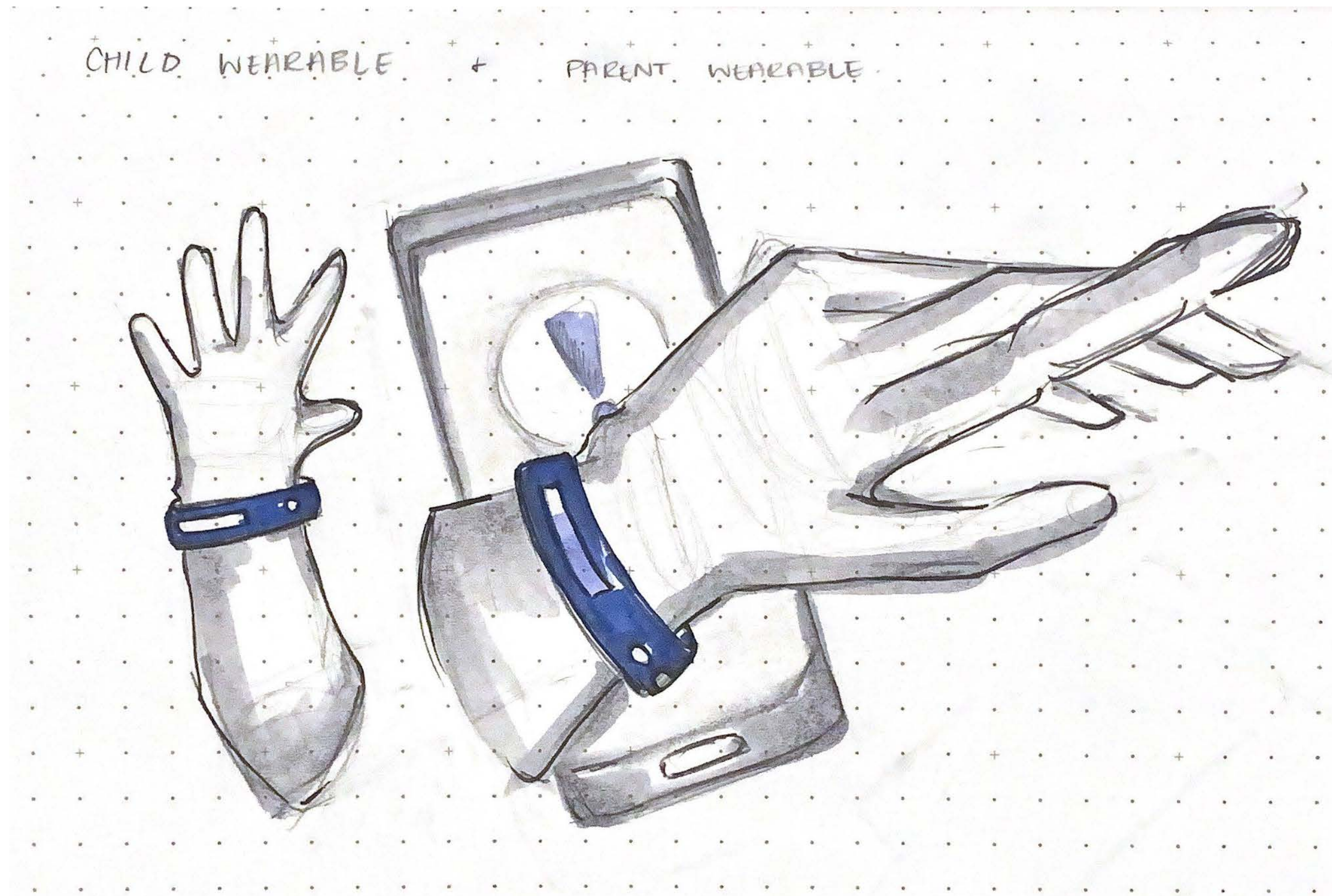
Learning
Pen

Adopt-a-
Grandparent

Pen Pals

School
Pool

Nanny
Cam



Remote Refocus

Using haptic feedback and simple LED notifications, teachers are able to quickly alert parents of their child's behavior during online learning sessions. Parents are then able to send alerts to their child in order to promote better focus.

Task

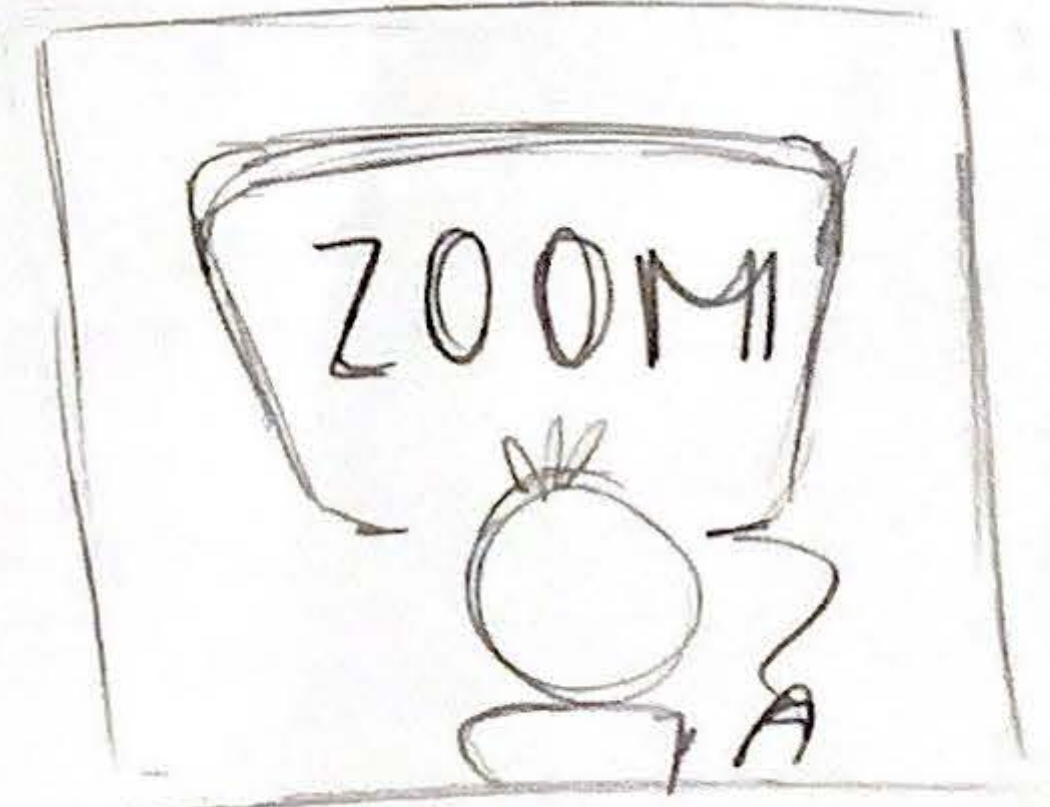
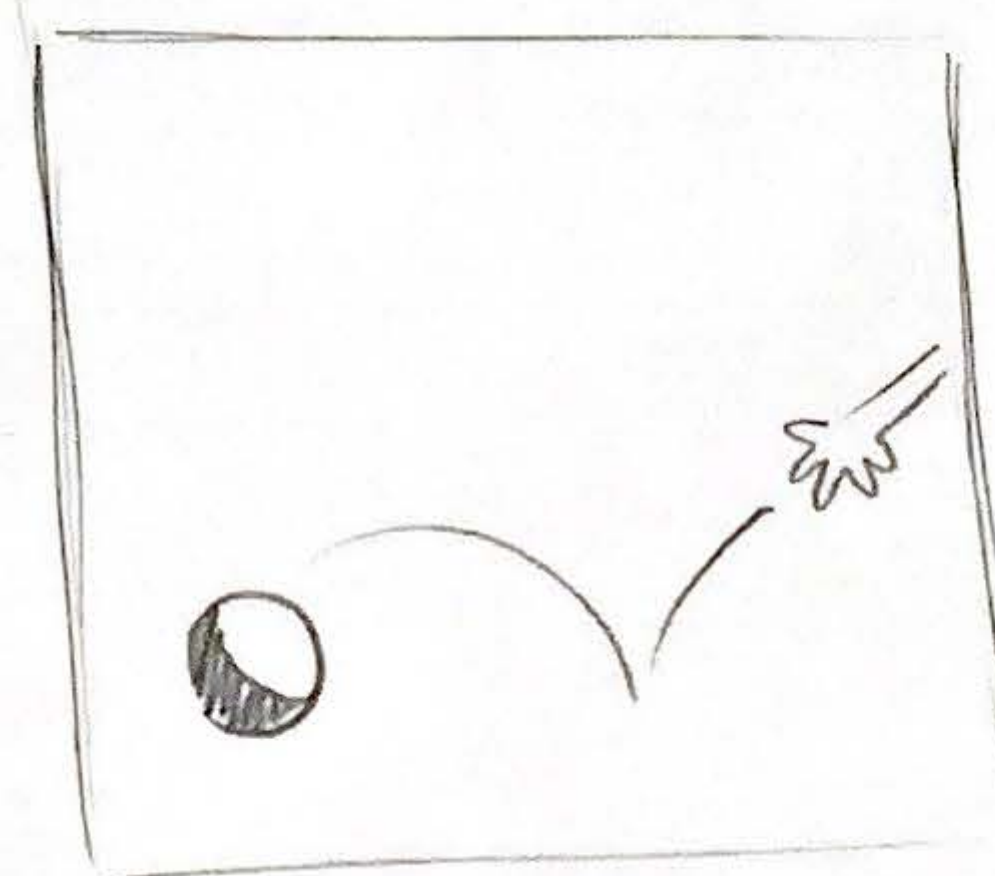
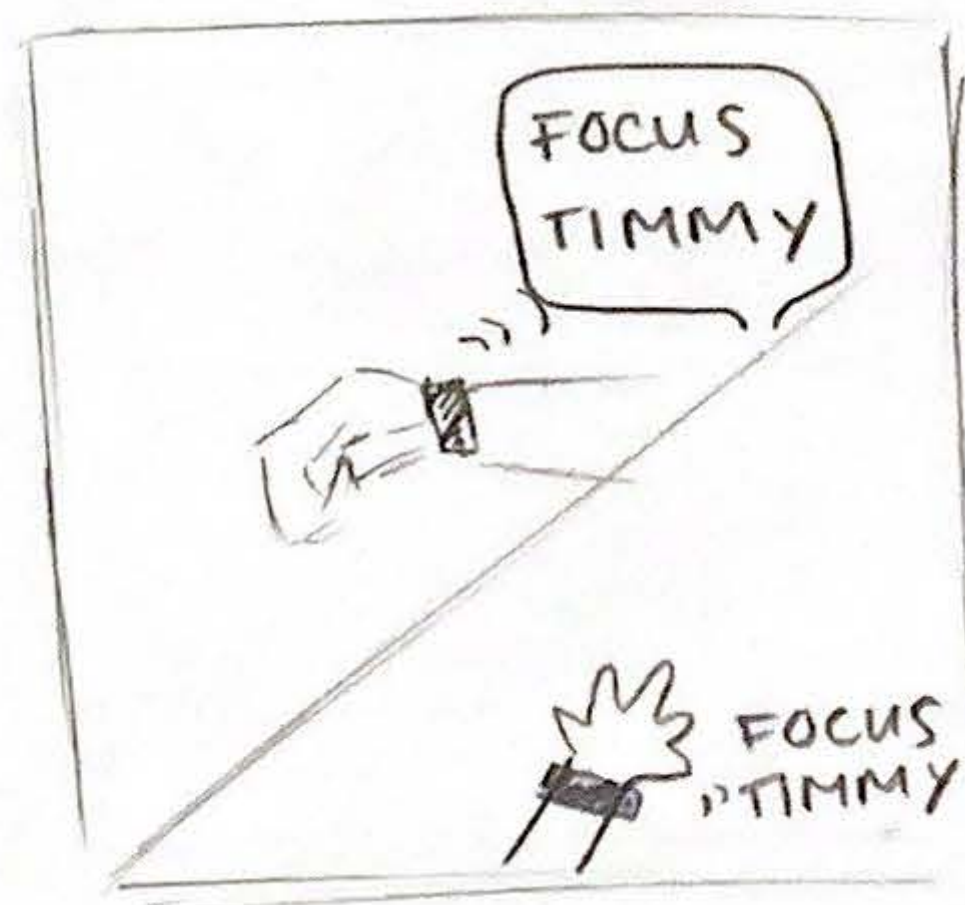
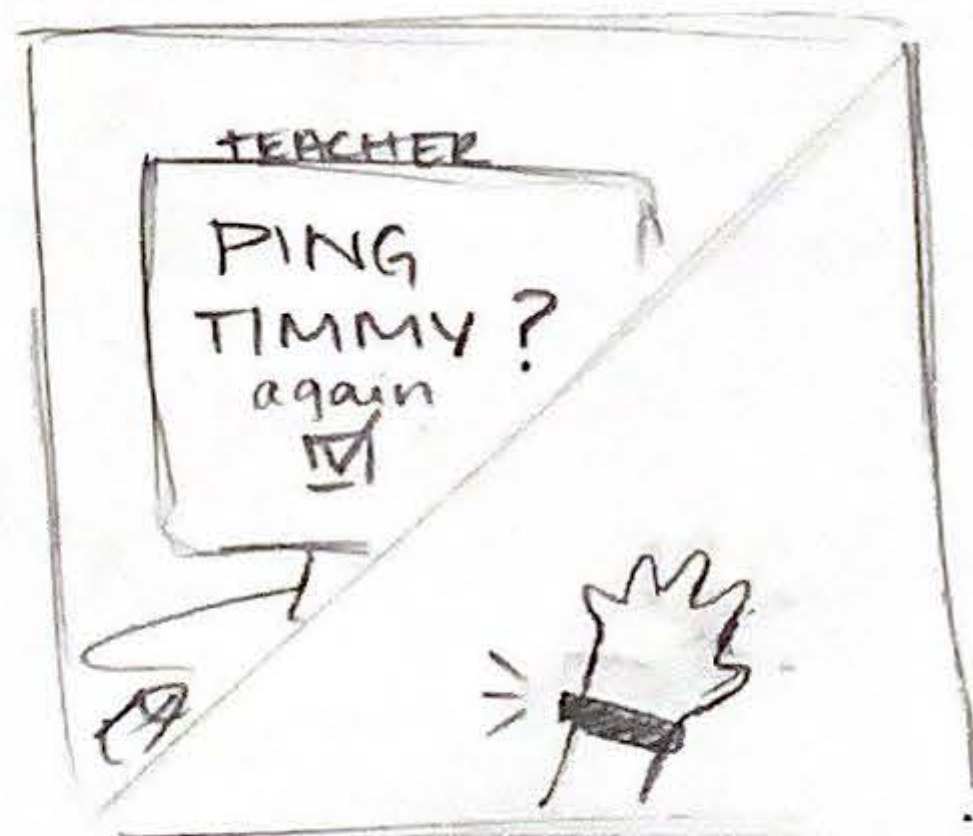
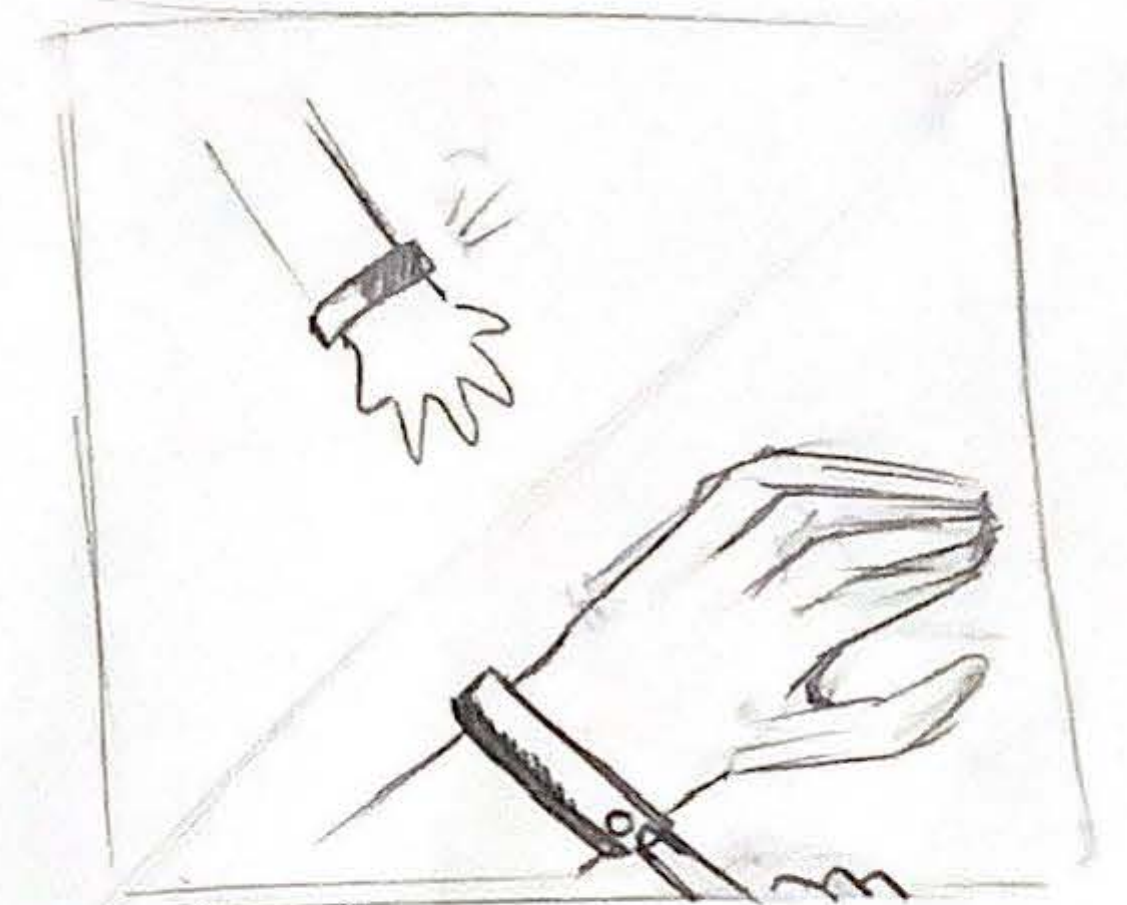
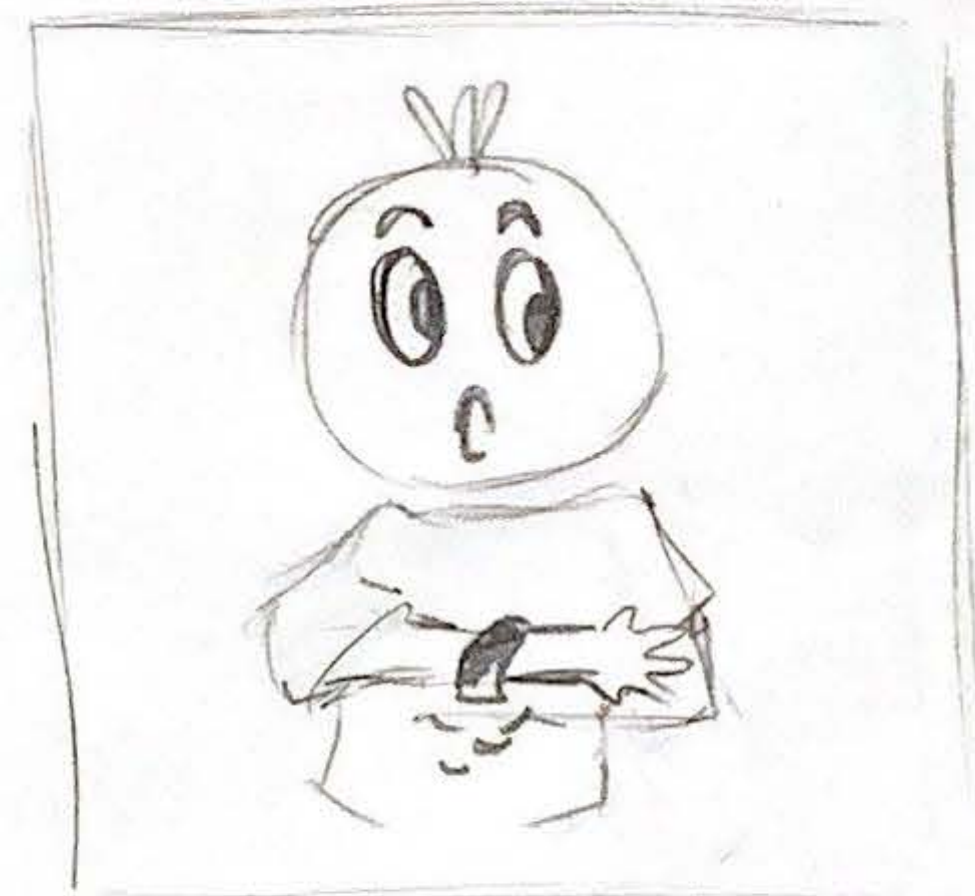
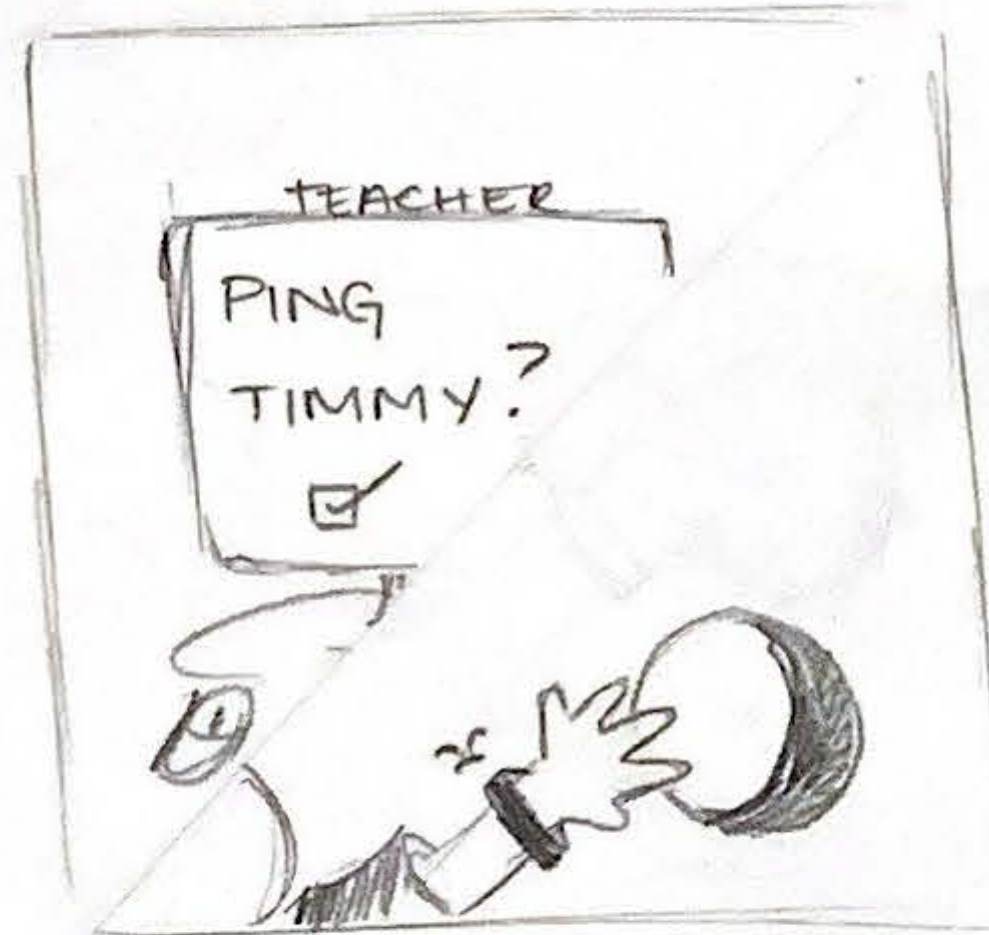
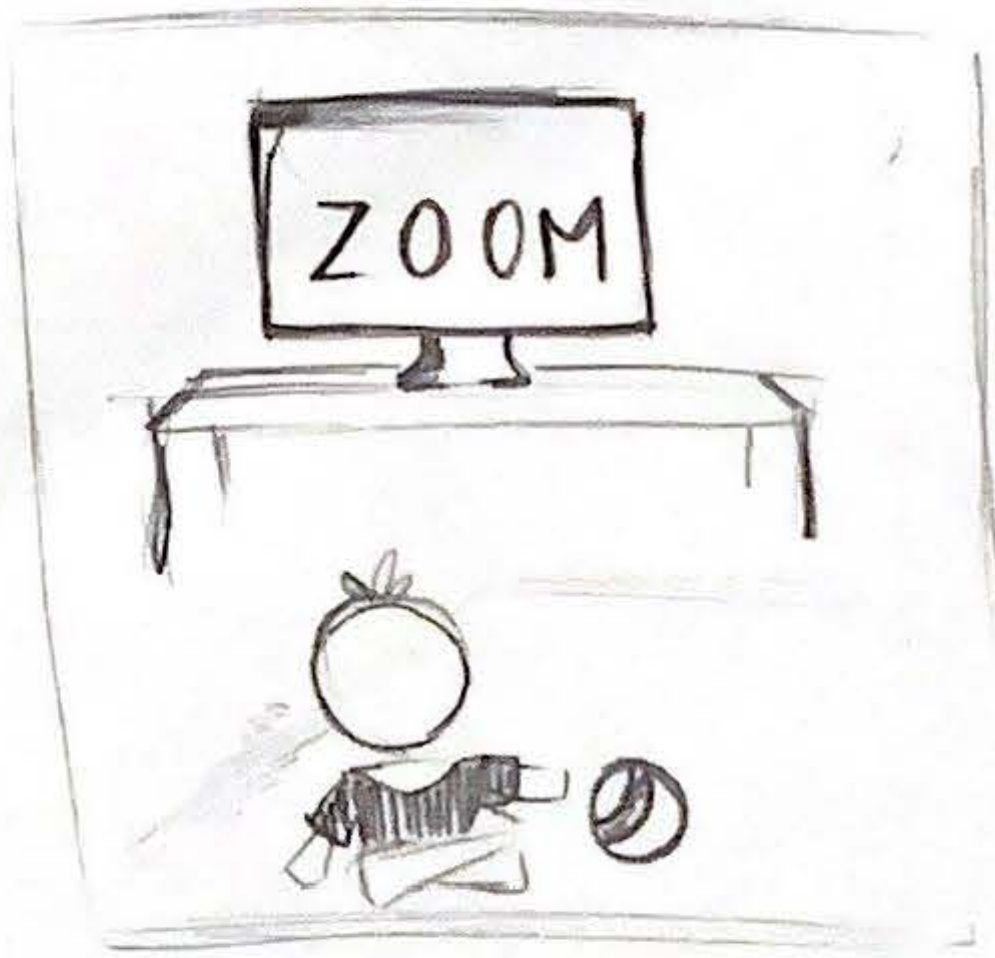
- Teacher can notify parent when child is being disruptive or getting off task
- Parent receives quick notification from teacher or student and will respond with fast and simple button or voice prompts to the child to get back on track
- Child can request a non-notifying voice chat that parents can either accept or decline

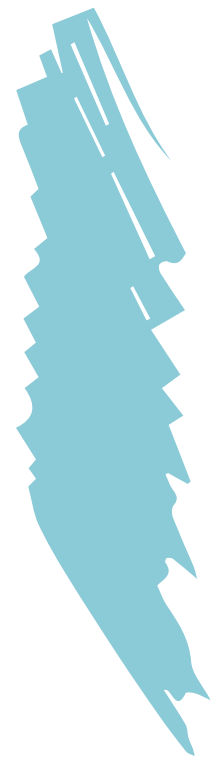
Function

- Teachers to communicate both with student and parent
- Allows parents to quickly and seamlessly communicate with child
- Helps child stay engaged in online learning
- Parent can monitor child during live sessions
- Reduce number of interruptions for working parents

Feature

- LED lights signals a disruption
- Haptic feedback makes a nondistracting notification
- Microphone on both wearables
- Button on parent wearable to accept the child's voice chat
- Button on child's wearable to request to talk to parent

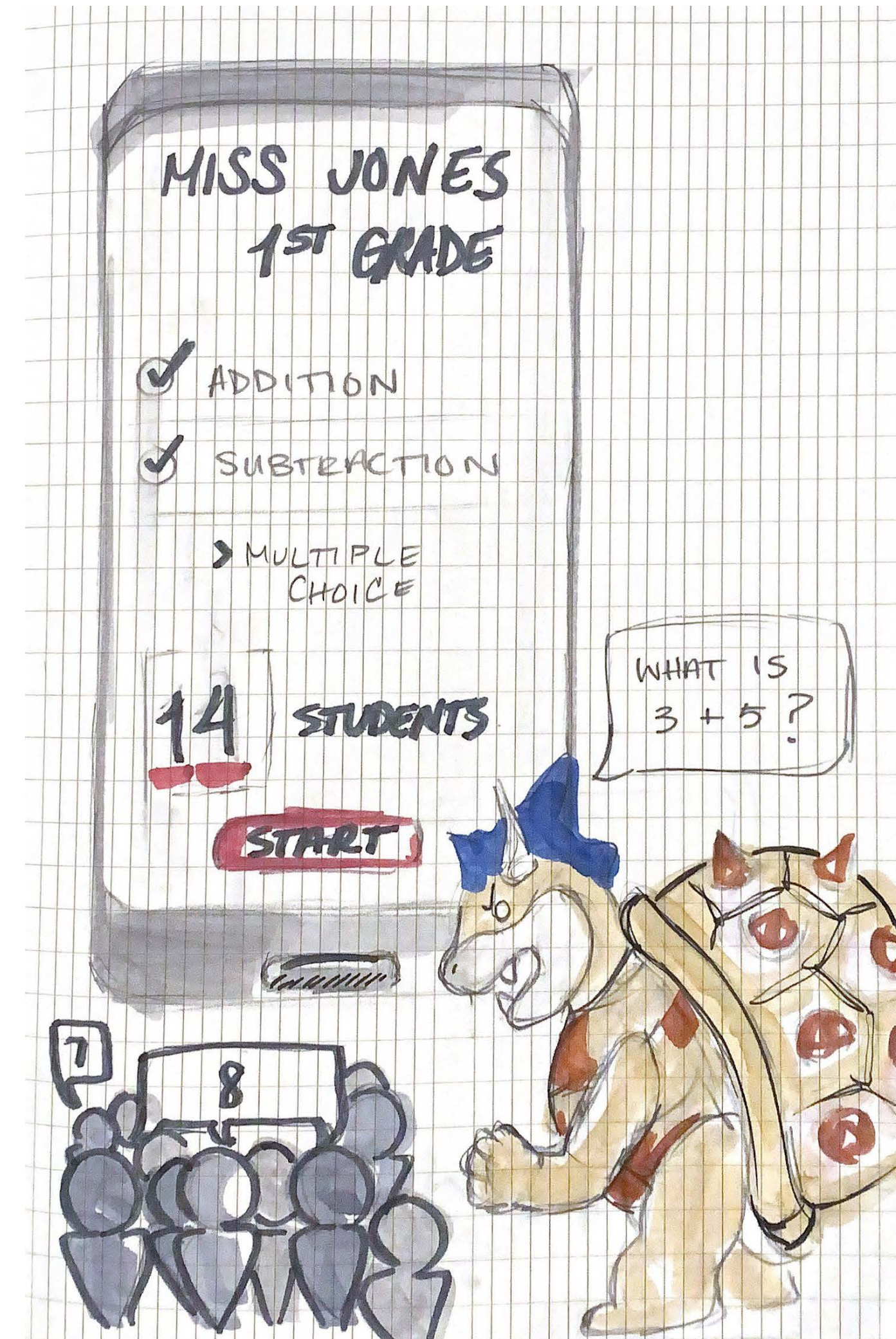




Result is that children and parents **both** are able to stay **more focused** on their work, with **remote monitoring** methods that eliminate the need for being in close proximity.

GAMEPLAN

A platform that gamifies learning and adds a social element to homework for communal learning. As parents are involved in setting goals, they are now more hands on in their child's education.



32 | GamePlan storyboard



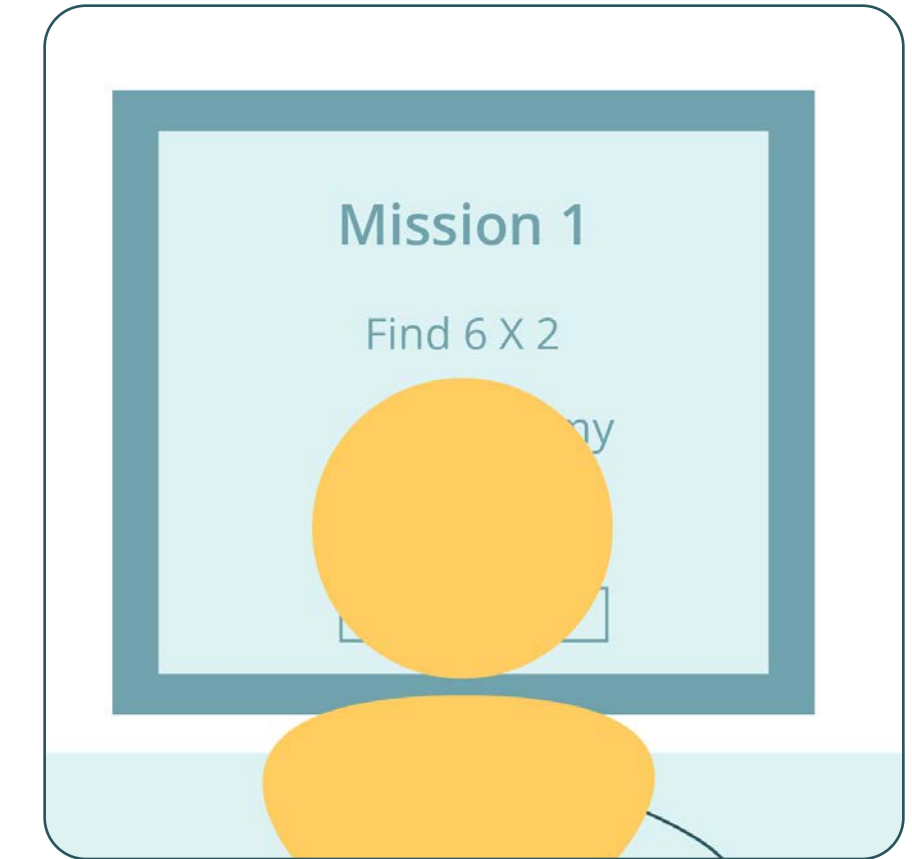
Faith's school has started using GamePlan so her mom, Jodi Lynn is helping her get set up



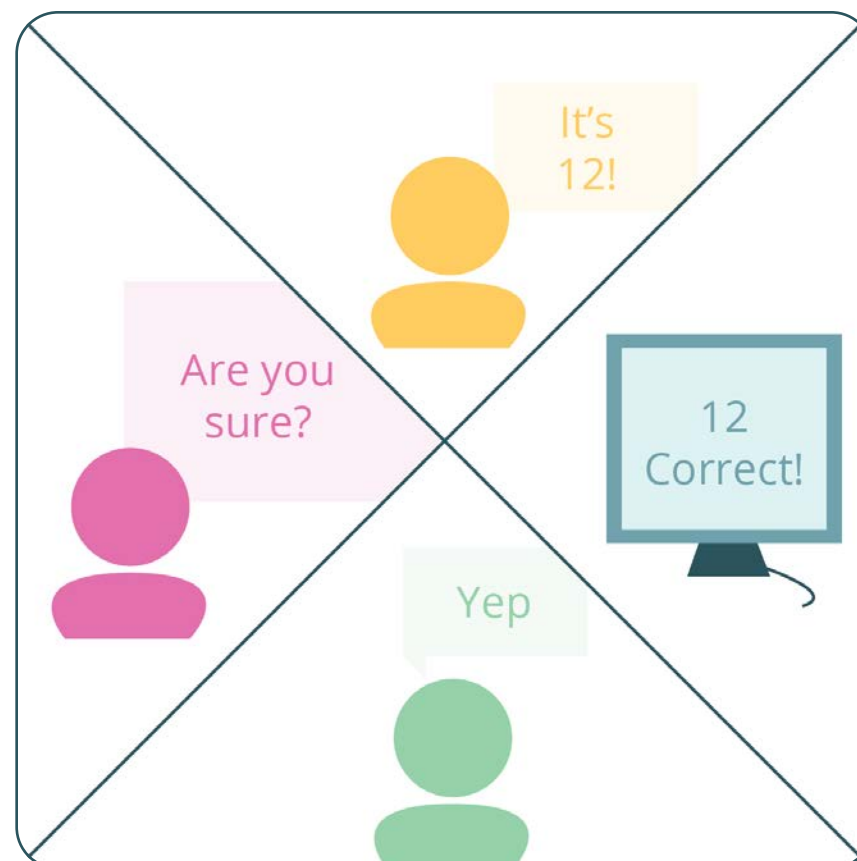
Faith's teacher, Miss Katie, has a new assignment for her



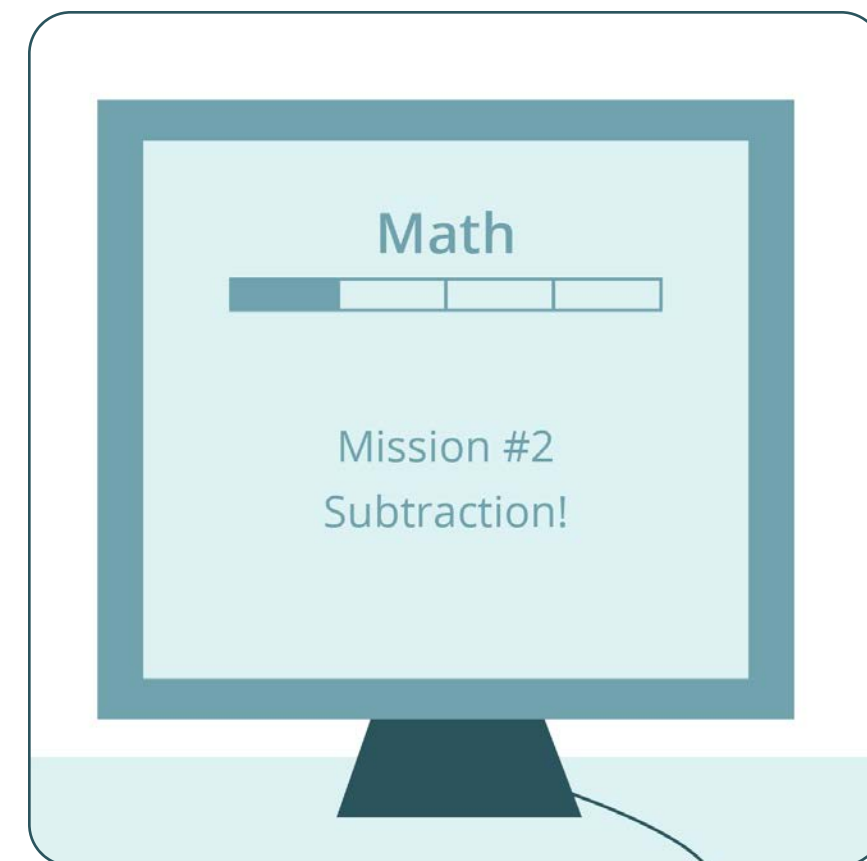
Faith is placed in a team with two other students



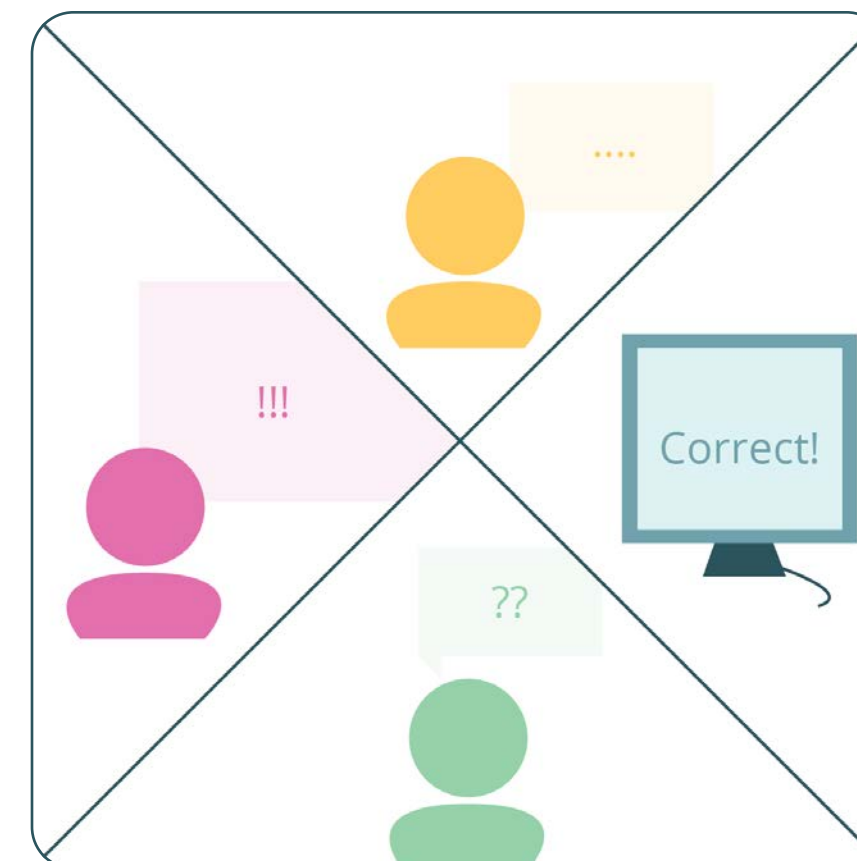
Faith begins the game



Faith and her classmates work together on the learning game



Faith and her classmates complete the game



They begin the next level



With the help of her classmates Faith completes the assignment

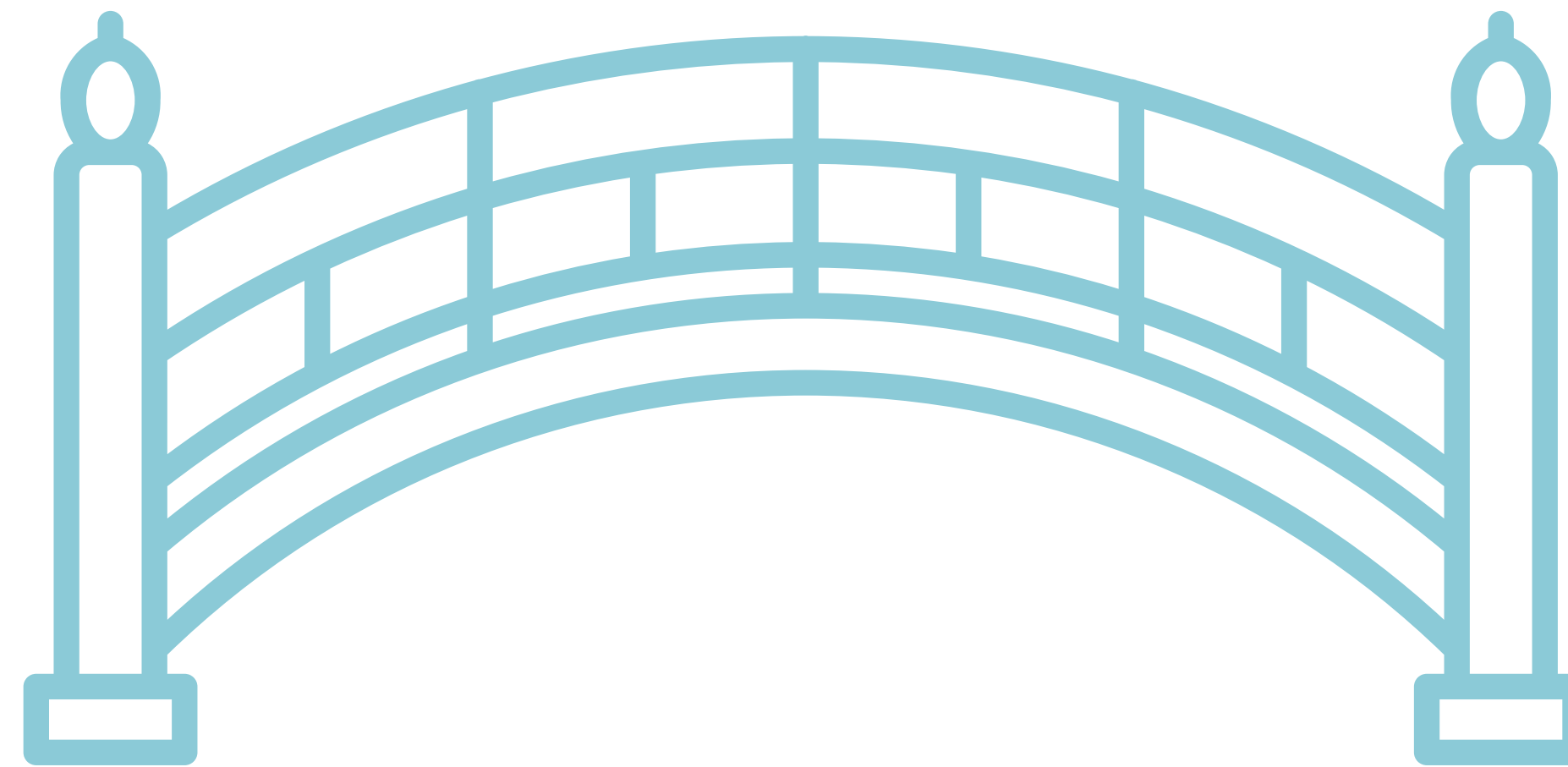
33 | Roles of parents, students, teachers

“[Parents] Must be able to bridge what the teacher wants and what the student is doing.”

— Teacher during card sorting

Teacher

- Grade
- Take attendance
- Communicate
- Instruct



Student

- Learn concepts
- Communicate

Parent

- Track student progress
- See lessons
- Motivate students
- Assist with technology and lessons

How Teachers Accomplish Core Tasks

Grade

- Skyward
- Similar apps

Take Attendance

- Skyward
- Similar apps



Instruct

- Seesaw
- Google Classroom
- Similar apps

Communicate

- Skyward
- Email
- Seesaw
- Google Classroom

4+ Applications and countless extensions

including Skyward, Seesaw, Google Classroom, Zoom, email, and more!

(our goal is to access everything from one platform)

Primary Demographic PreK – 5th grade
teachers and students

Secondary Demographic PreK – 5th grade parents

Rationale for demographic

“I respect teachers for what they do and want to support them, but I can’t do their job.”

— Parent during user interview

Tasks

Teacher

- Grade
- Take attendance
- Communicate
- Instruct

Parent

- Track student progress
- See lessons
- Motivate students
- Assist with technology and lessons

Student

- Learn concepts
- Communicate

Functions

Teacher

- Improve communication with parent
- Streamline the creation of

Parent

- Improve communication with teacher

Student

- Gives feeling of responsibility
- Chance to interact, socialize and collaborate to learn

Features

Teacher

- Classroom
- Assignments
- Message Center
- Lessons
- Agenda
- Profile

Parent

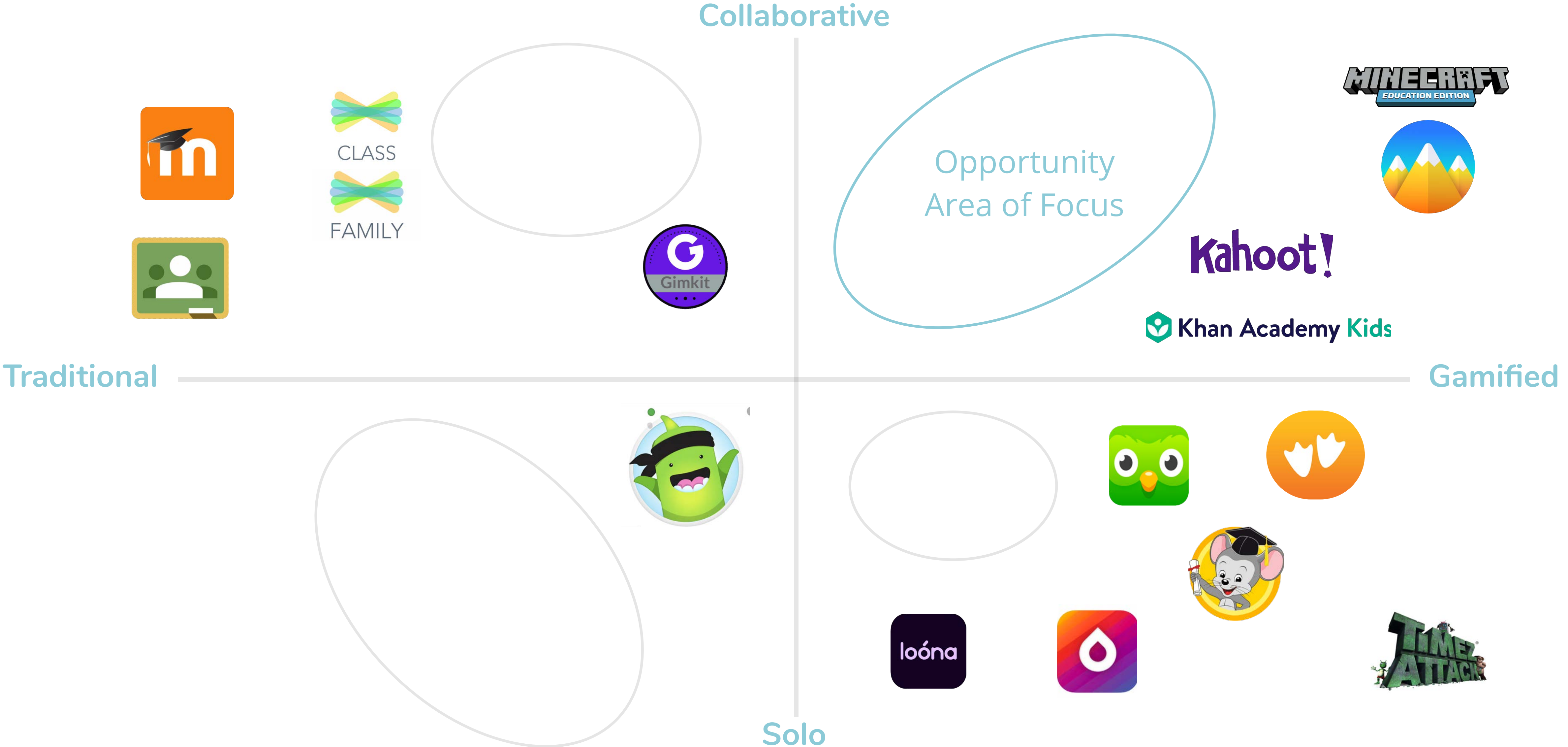
- Lessons
- Assignments
- Agenda
- Student Progress
- Message Center
- Profile

Student

- Lessons
- Homework
- Message Center
- Character
- Game World



GamePlan is an online learning environment that **streamlines teacher tasks** and **engages children through gamified learning**, thus making a **parent's** role in their child's education **simpler**.



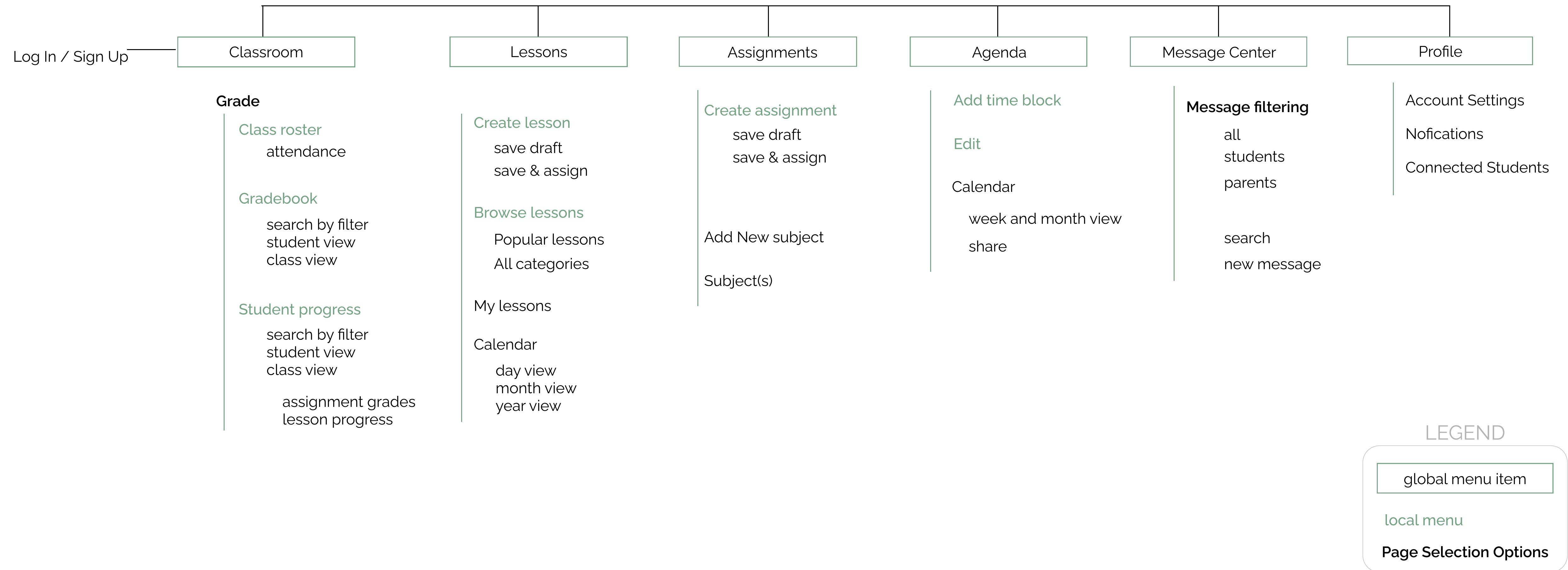
	 Moodle	 Seesaw	 Khan Academy Kids	 Kahoot!	 Classcraft	 MINECRAFT EDUCATION EDITION	 TIMEZ ATTACK	 Duolingo	 Google Classroom
Student to Student Collaboration									
Parental Involvement									
Student to Teacher Interaction									
Gamification									

1. Universal Platform

2. Gamification

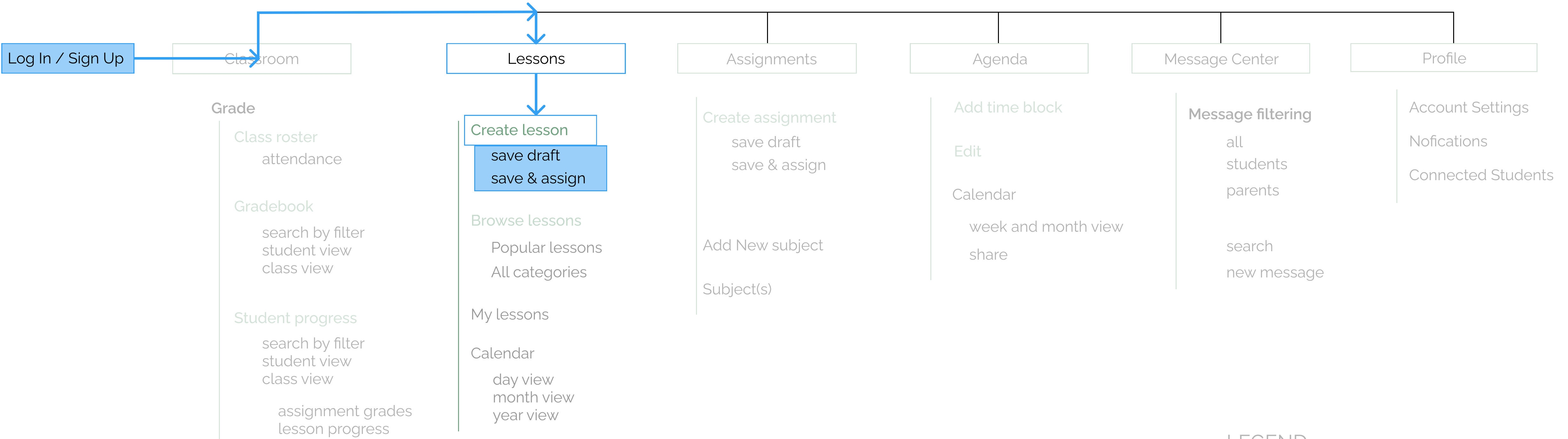
3. Contextual Messaging

41 | Teacher prototype blueprint



42 | Teacher prototype - task flow

Representative Task = Create a lesson



LEGEND

global menu item

start / end

local menu

clickable item

Page Selection Options

task flow direction

43 | Teacher prototype

GamePlan

Classroom

Lessons

Assignments

Agenda

Message Center

Class Roster

Gradebook

Student Progress

Kindergarten

1st Grade

Add Class

week

month

Attendance - Week of Oct. 12

share

	Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16	Absences this Month
Name IEP	P A	P A	P A	P A	P A	0
Name	P A	P A	P A	P A	P A	0
Name IEP	P A	P A	P A	P A	P A	1
Name	P A	P A	P A	P A	P A	1
Name	P A	P A	P A	P A	P A	2
Name	P A	P A	P A	P A	P A	0
Name	P A	P A	P A	P A	P A	0
Name	P A	P A	P A	P A	P A	2
Name	P A	P A	P A	P A	P A	2
Name IEP	P A	P A	P A	P A	P A	1
Name	P A	P A	P A	P A	P A	0
Name 504	P A	P A	P A	P A	P A	1

Classroom

GamePlan

Classroom

Lessons

Assignments

Agenda

Message Center

Create assignment

New subject

Subject Name

Subject Name

Subject Name

Upcoming
Assignment

Lesson Name
Summary

Assignments

GamePlan

Classroom

Lessons

Assignments

Agenda

Message Center

Create Lessons

View Pre-made Lessons

My Lessons

Math Lesson 1
Short description

Science Lesson 6
Short description

English Lesson 4
Short description

Spanish Lesson 1
Short description

Spanish Lesson 1
Short description

day

week

month

Week of Oct. 12

share

Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16
	Math Lesson 3 Short description	English Lesson 3 Short description		
		Science Lesson 1 Short description		

Lessons

GamePlan

Classroom

Lessons

Assignments

Agenda

Message Center

Add Time Block

Edit

Student Agenda

week

month

Week of Oct. 12

share

	Mon. 12	Tues. 12	Wed. 12	Thurs. 13	Fri. 14
07:00					
08:00	Math Lesson 3 www.zoom.com/sfda	English Lesson 2 www.zoom.com/sfda	Assignment 3	Math Lesson 5 www.zoom.com/sfda	Science Lesson 7 www.zoom.com/sfda
09:00	Break	Break	Break		
10:00	Science Lesson 3 www.zoom.com/sfda	Assignment 2	Social Studies Lesson 2 www.zoom.com/sfda	Assignment 5	Assignment 8
11:00			Assignment 4	Assignment 6	
12:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00	Assignment 1	Spanish Lesson 1 www.zoom.com/sfda	Science Lesson 5 www.zoom.com/sfda	English Lesson 1 www.zoom.com/sfda	Spanish Lesson 1 www.zoom.com/sfda
14:00					
15:00					

Agenda

GamePlan

Classroom

Lessons

Assignments

Agenda

Message Center

All

Students

Parents

Key word search

New Message

Delivered

Read

Parent: Jodi Parker

Jeffy is a coward!

Delivered

Read

Parent: Deborah Moore

Timmy isn't doing so well in math :(I heard Susy is a math god, can she help my...

Delivered

Read

Student: Jeffy T. Parker

This is your last warning! Please conduct yourself properly during class.

Delivered

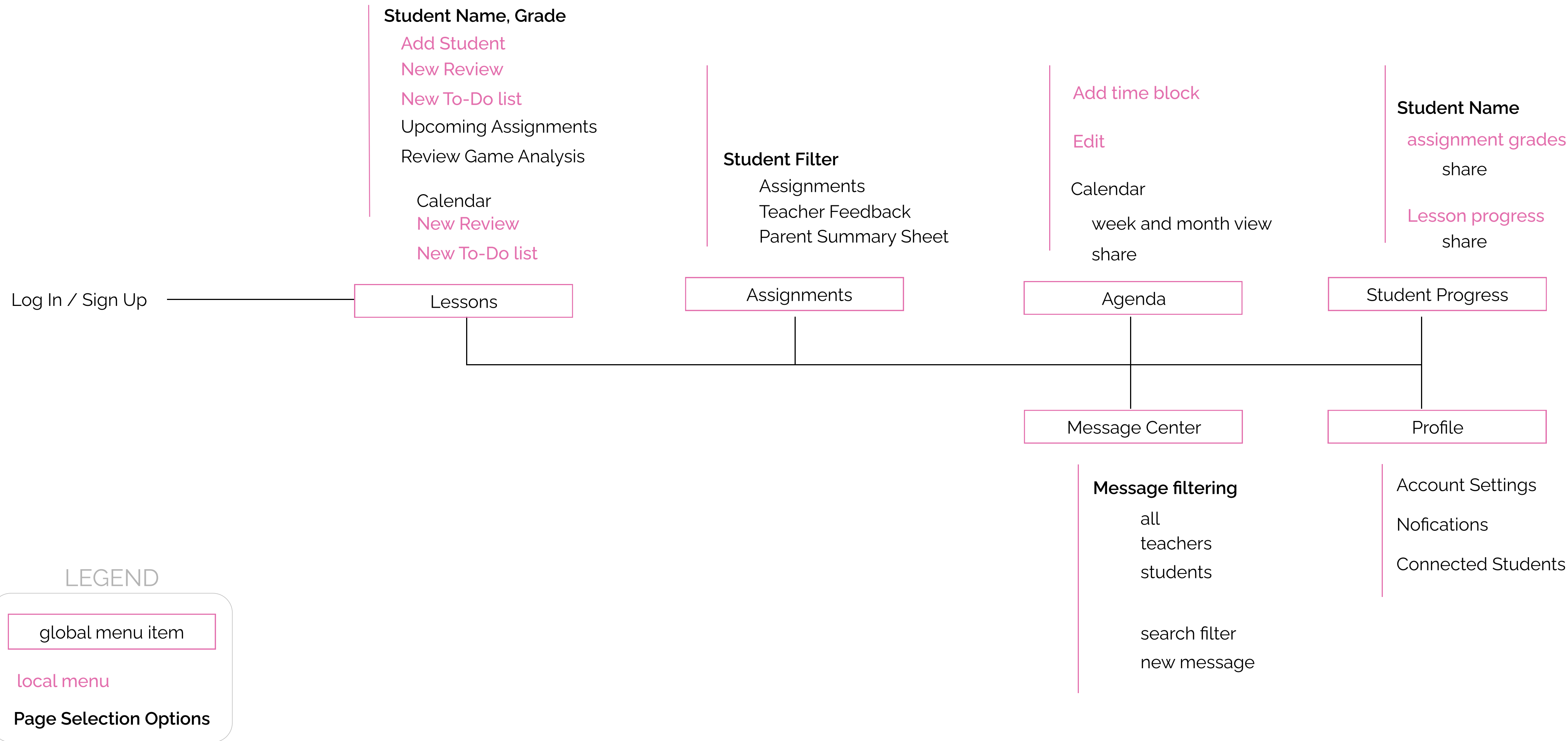
Read

Parent: Susan Miller

My daughter came home and told me that today in class Jeffy Parker was a little...

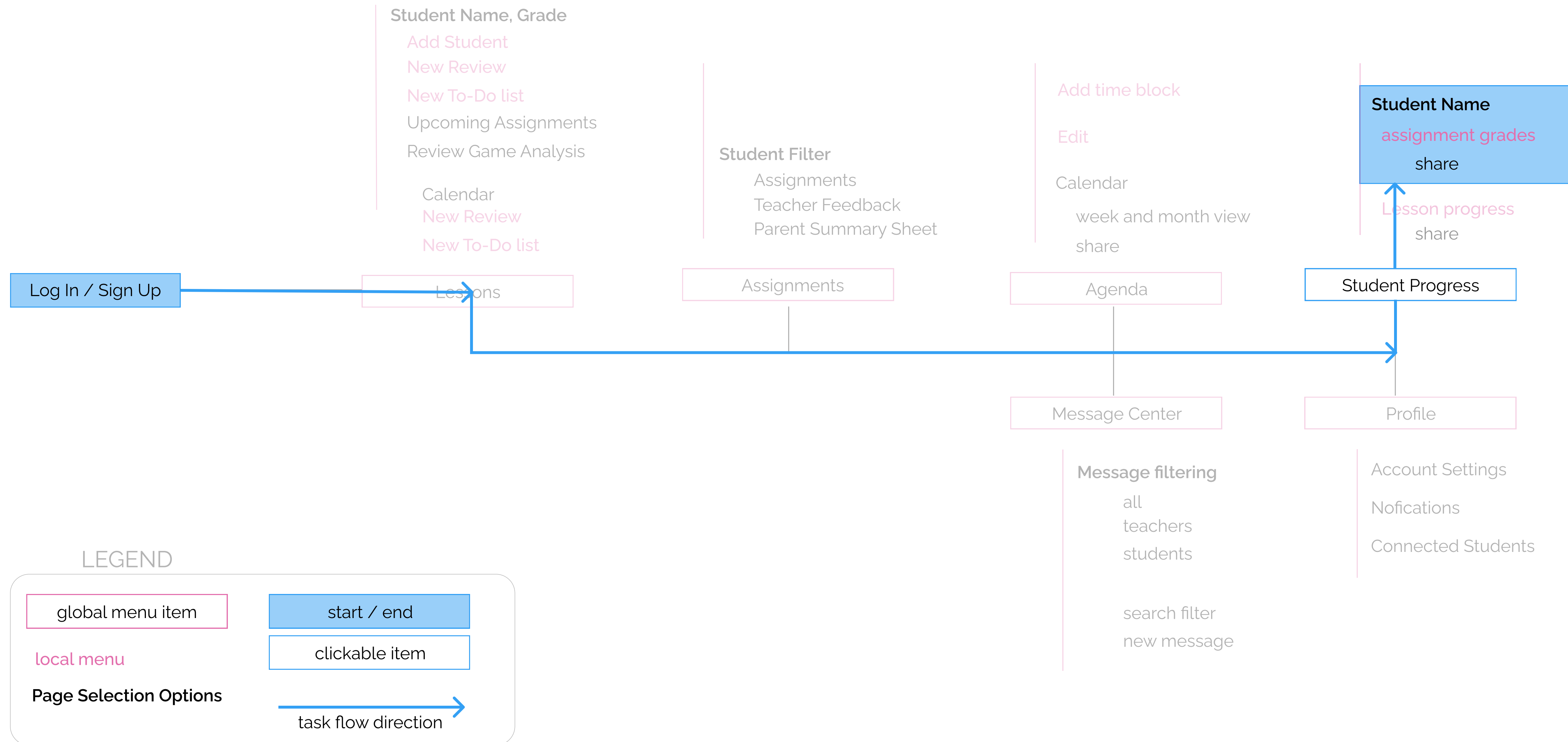
Message Center

44 | Parent prototype - blueprint

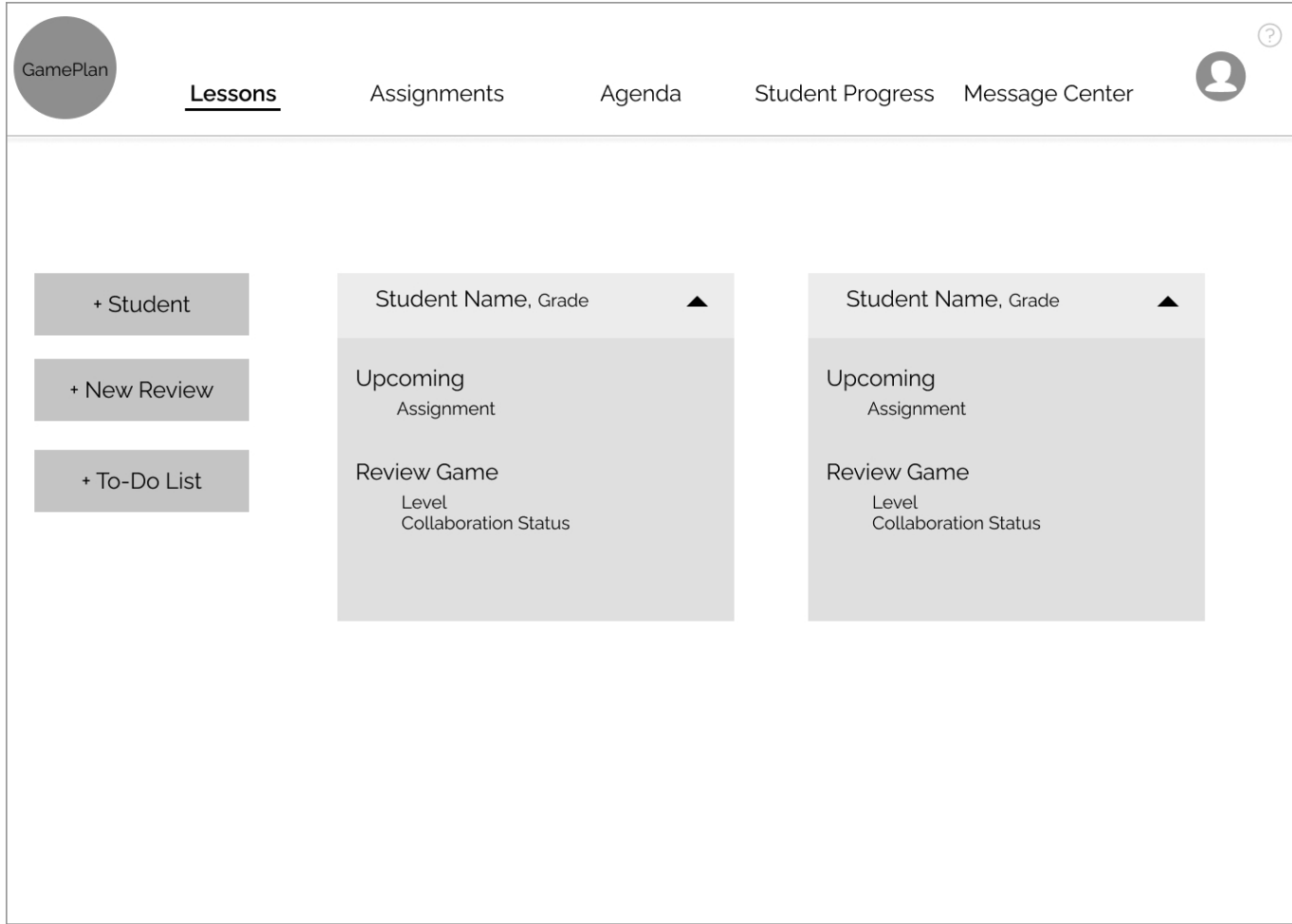


45 | Parent prototype - task flow

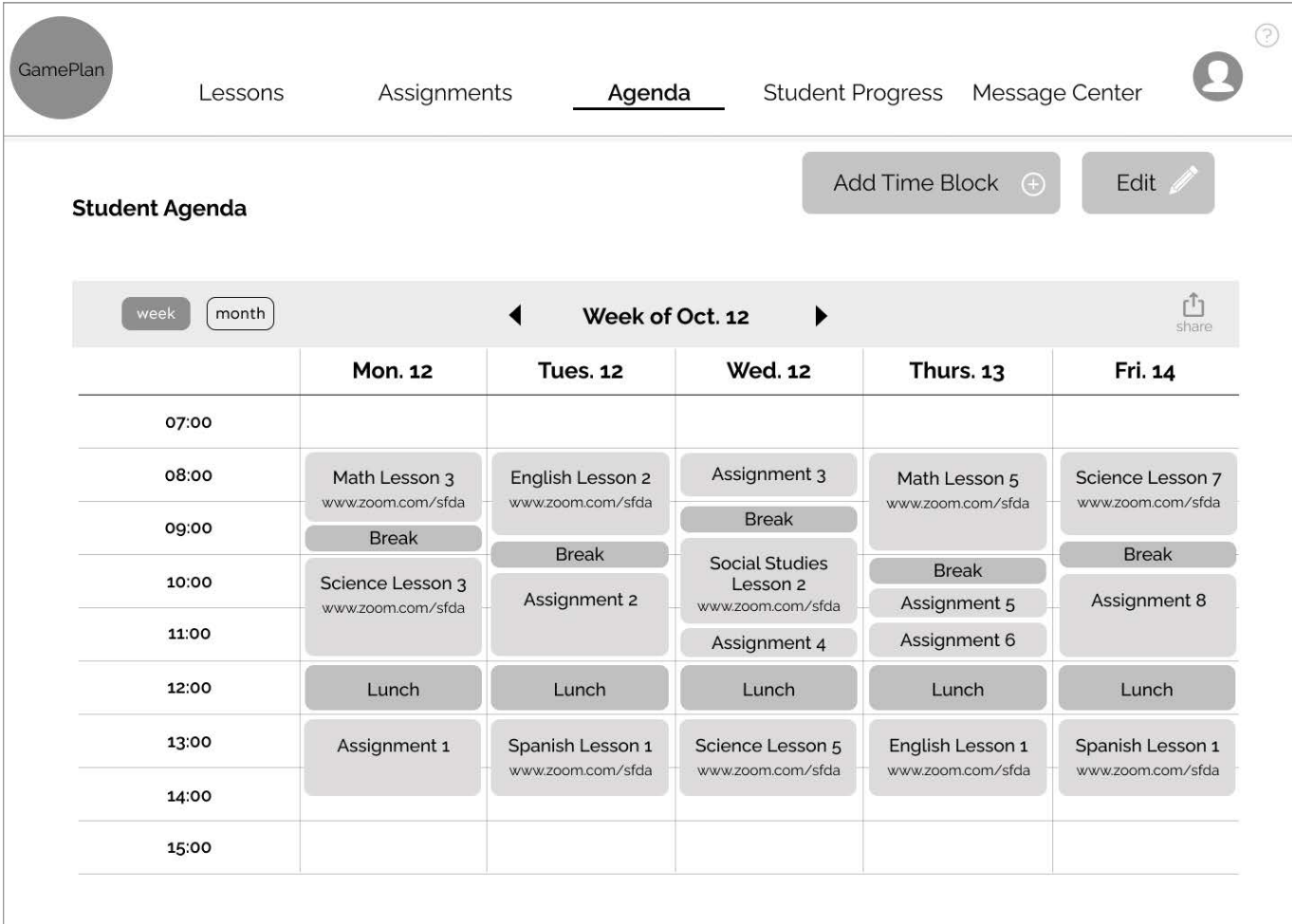
Representative Task = Check on student progress



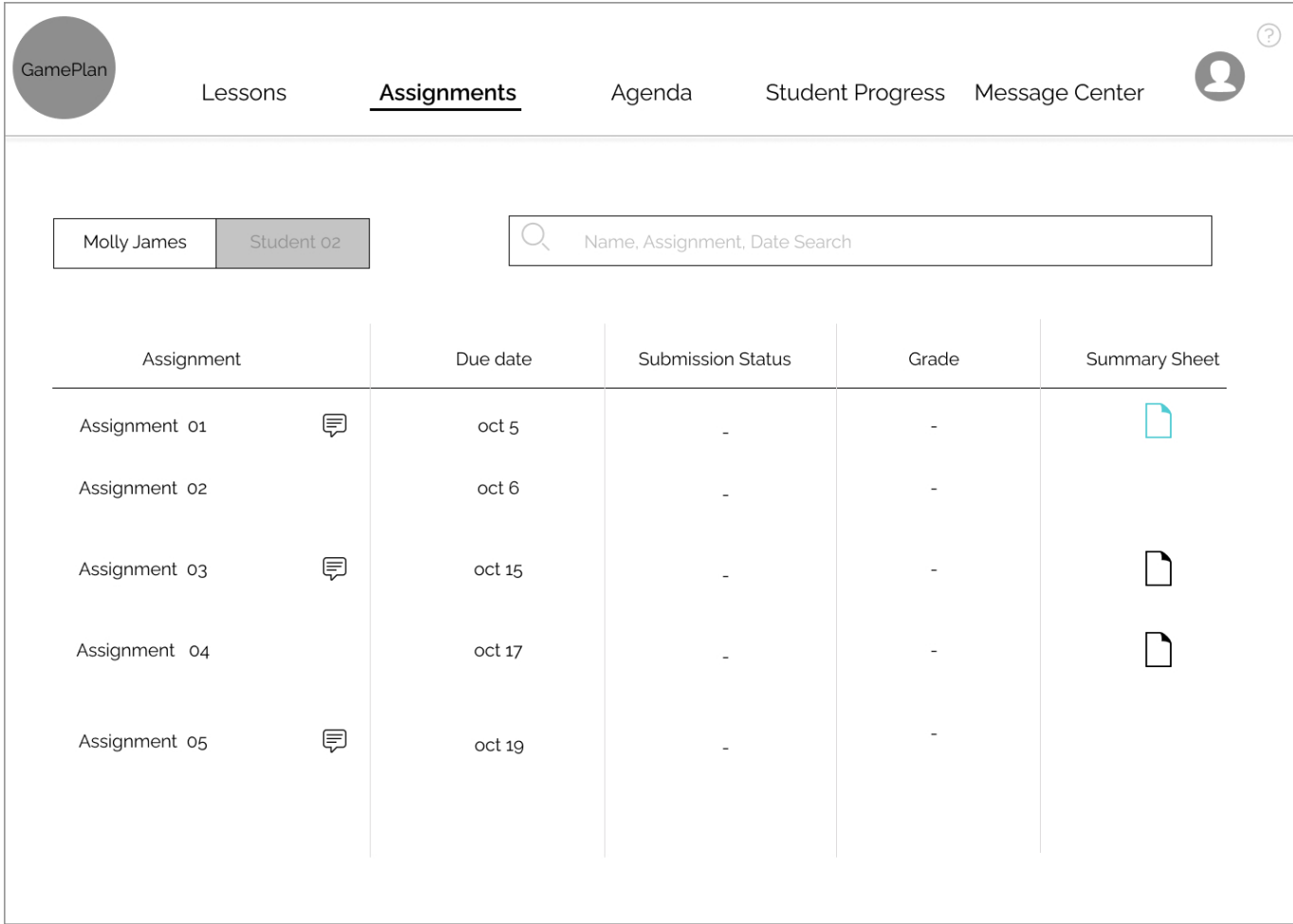
46 | Parent prototype



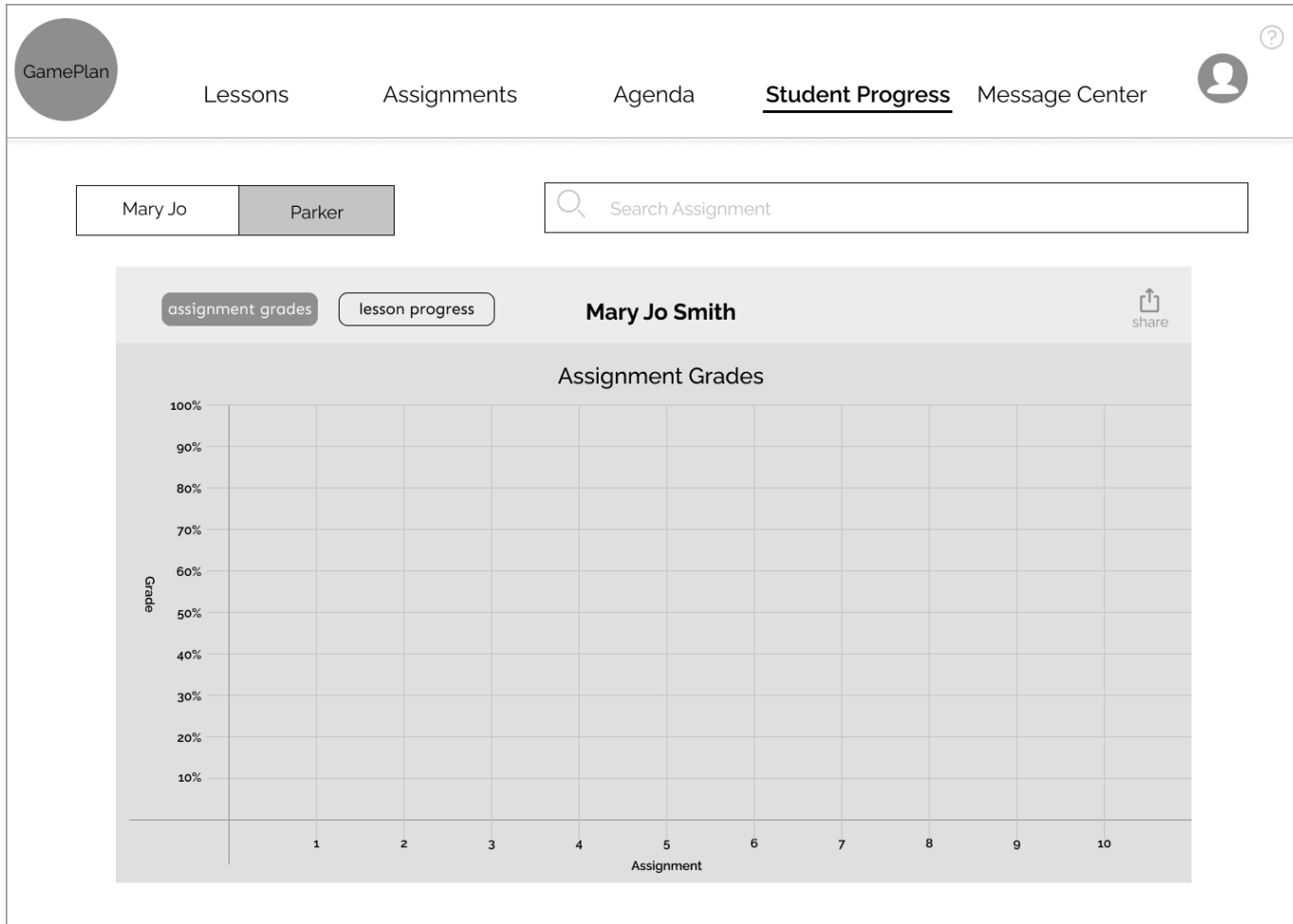
Lessons



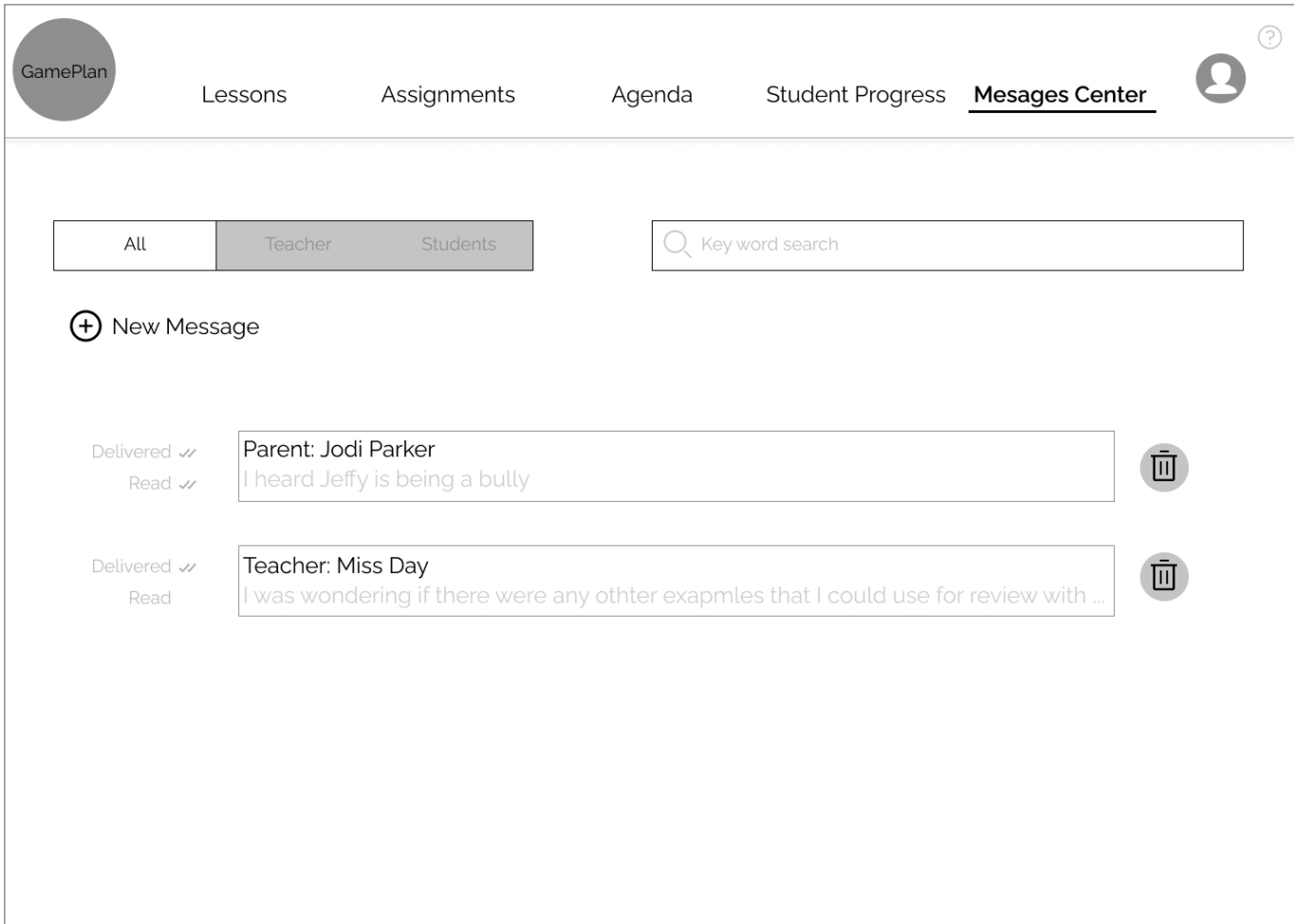
Agenda



Assignments

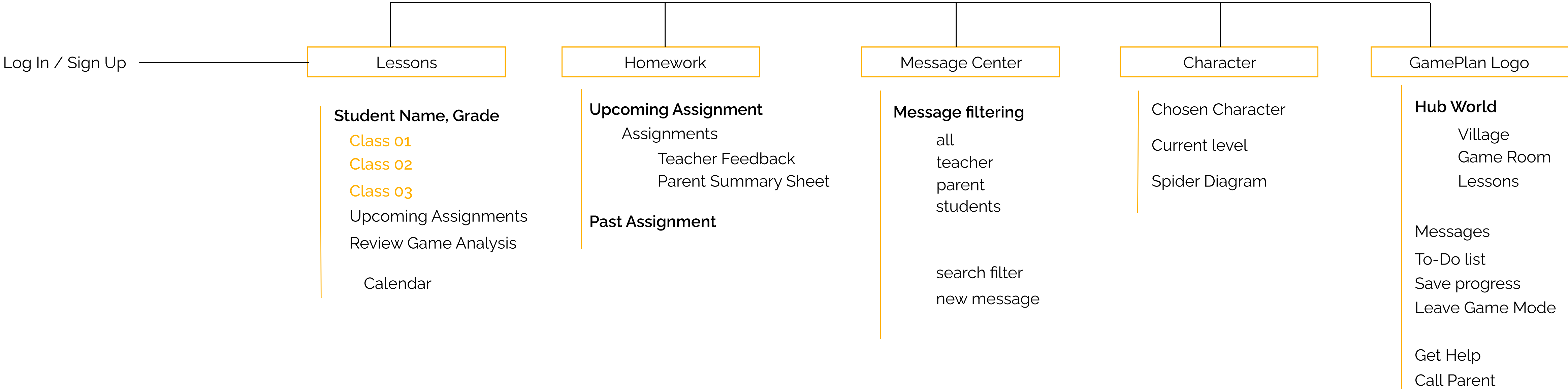


Student Progress



Message Center

47 | Student prototype - blueprint



LEGEND

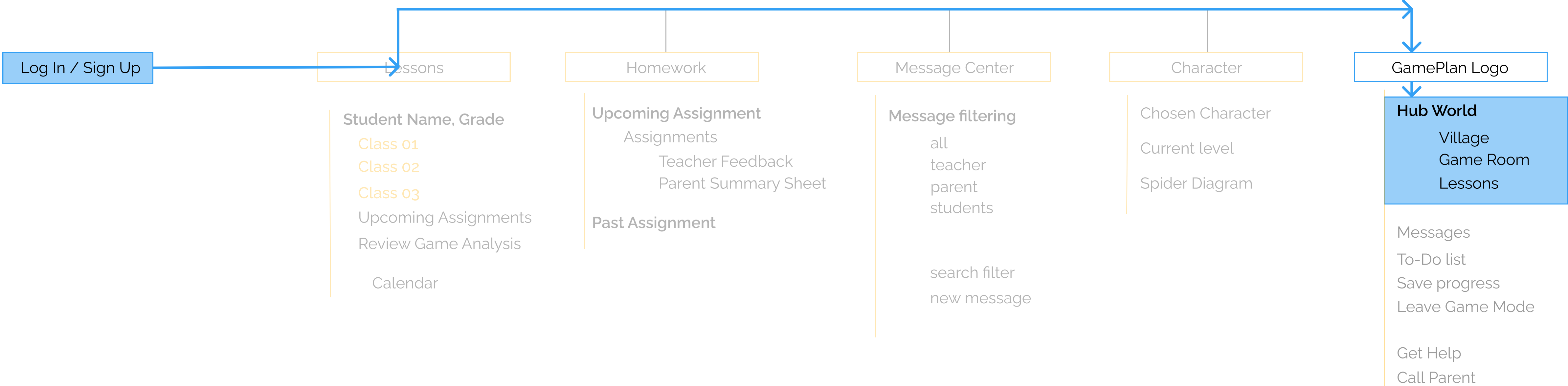
global menu item

local menu

Page Selection Options

48 | Student prototype - task flow

Representative Task = Complete assignment



LEGEND

global menu item

start / end

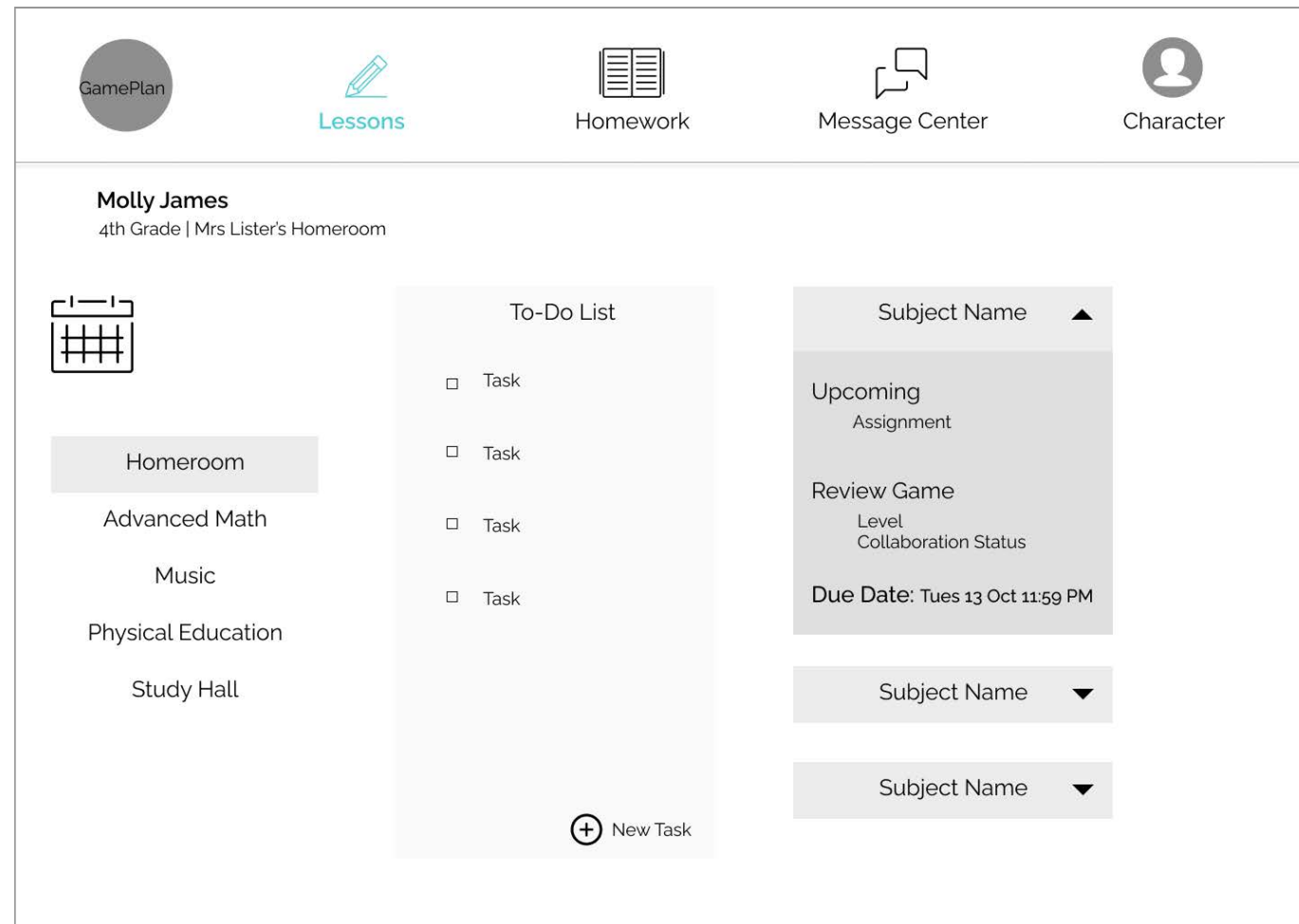
local menu

clickable item

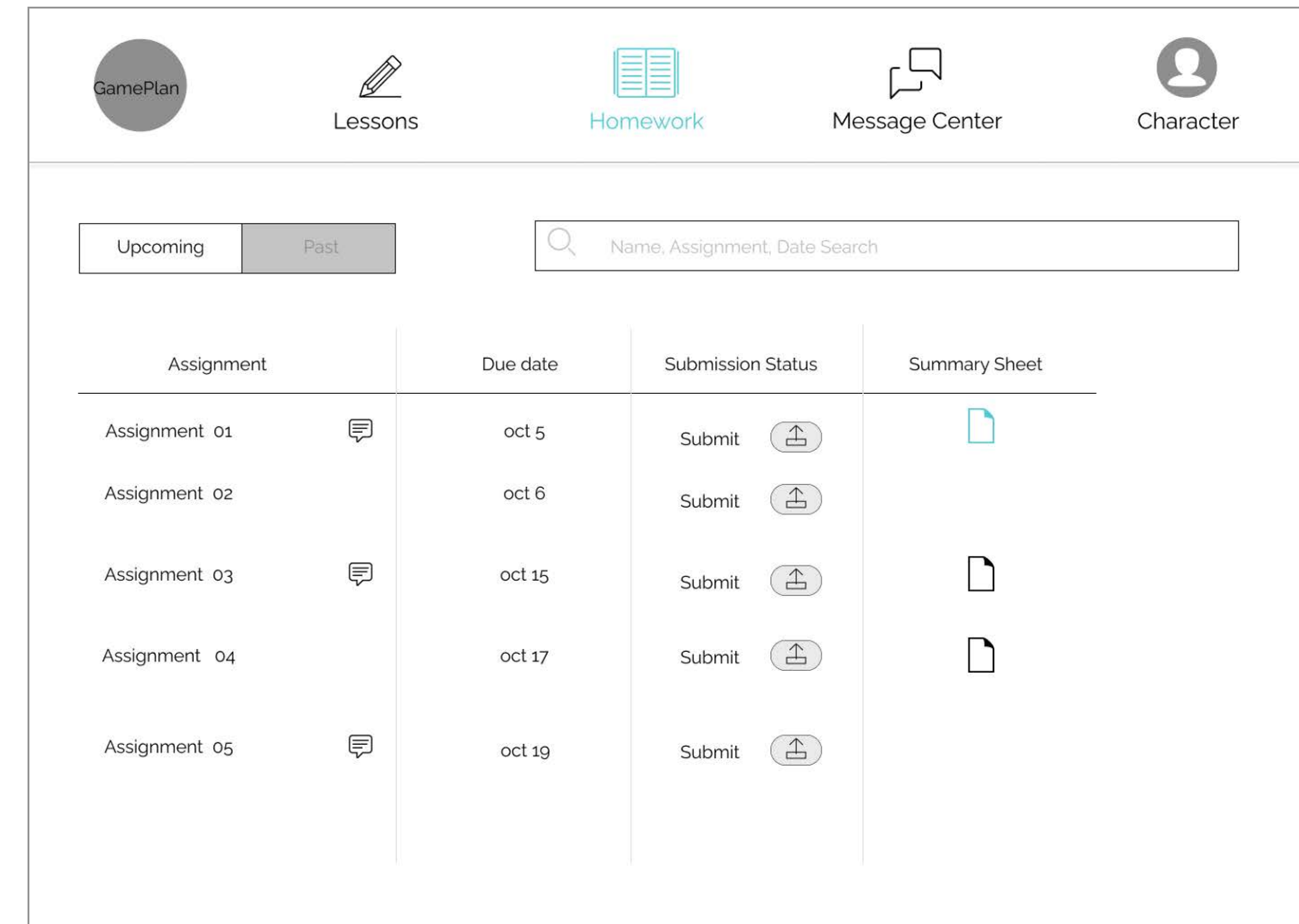
Page Selection Options

task flow direction

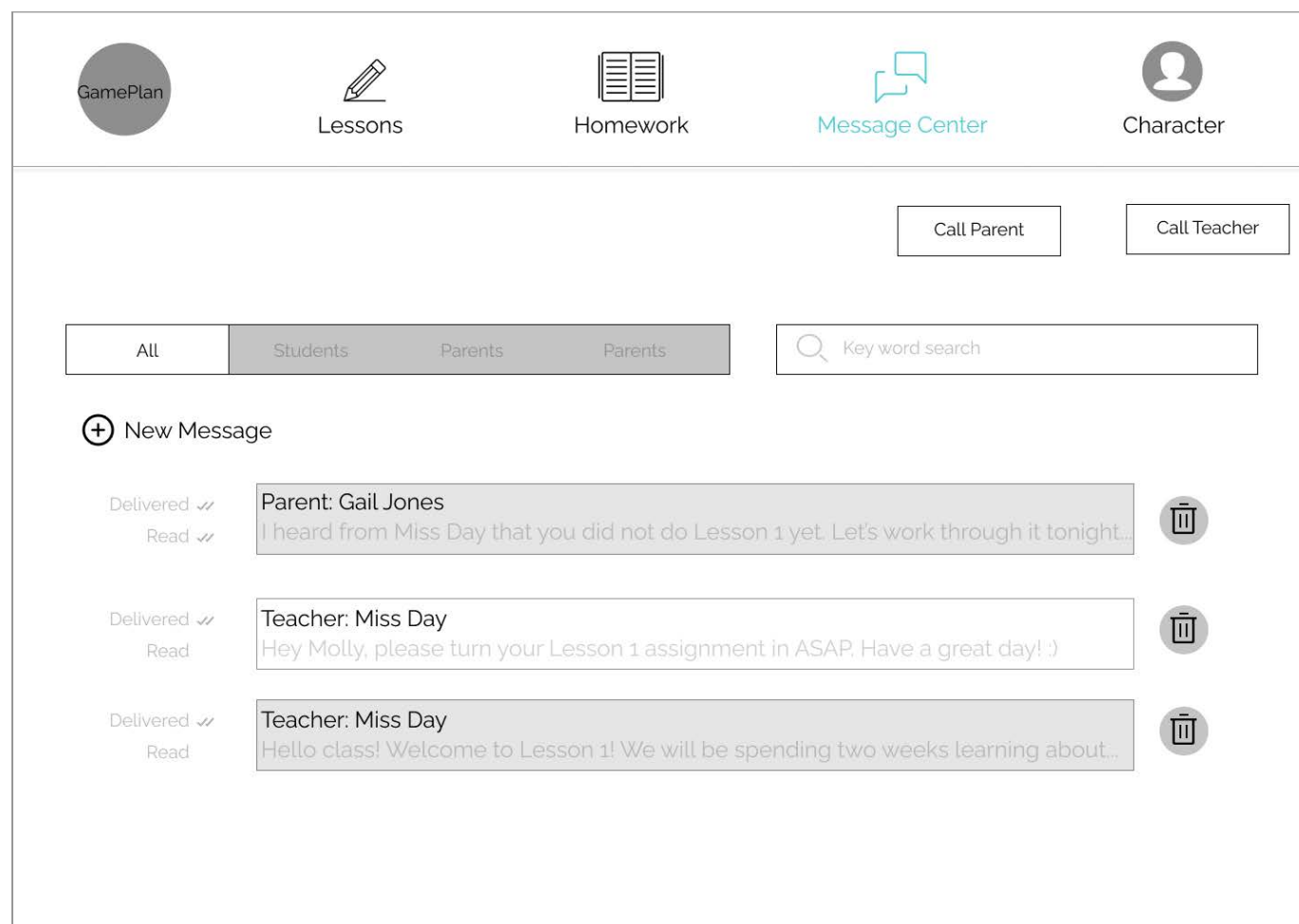
49 | Student prototype



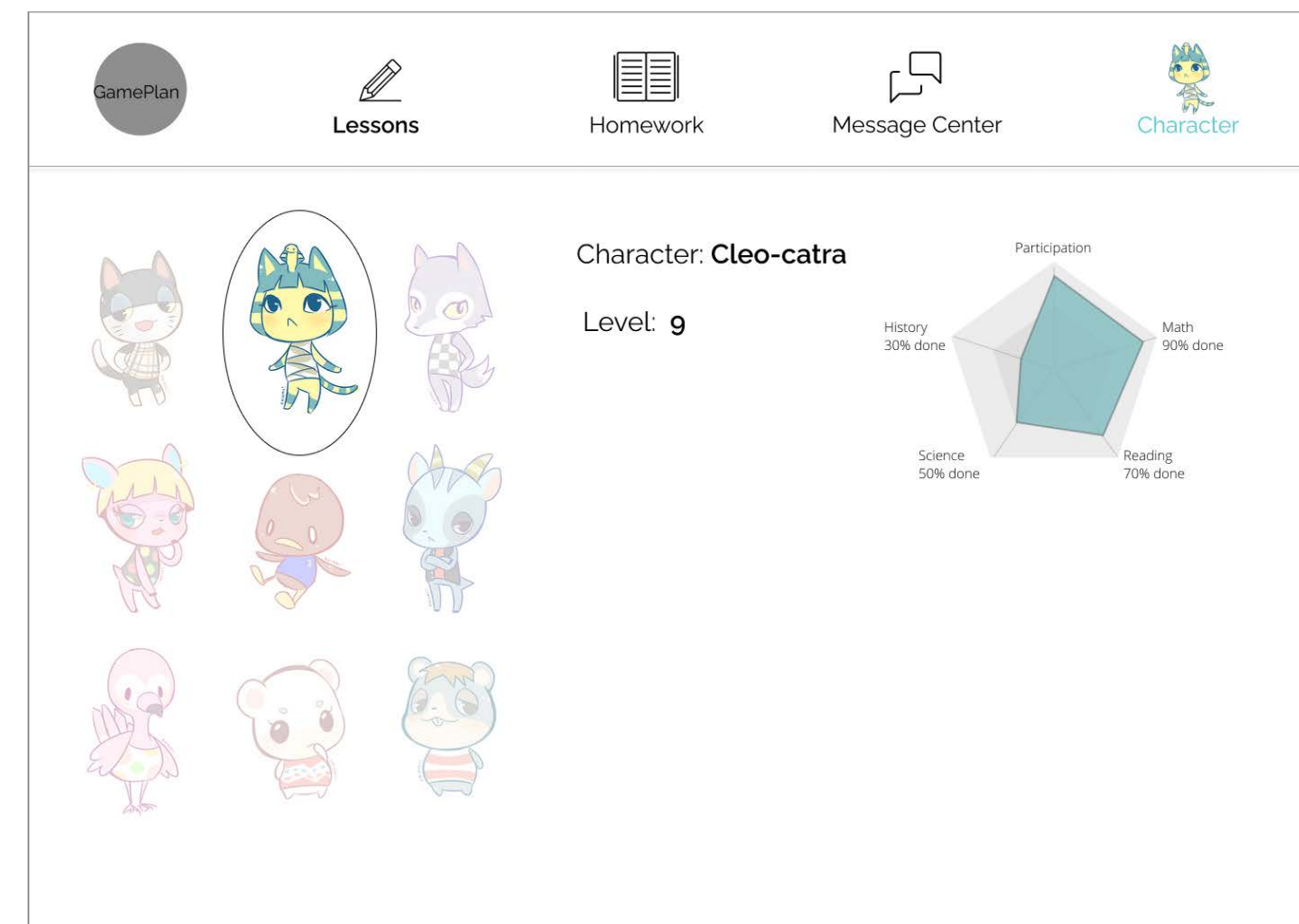
Lessons



Homework

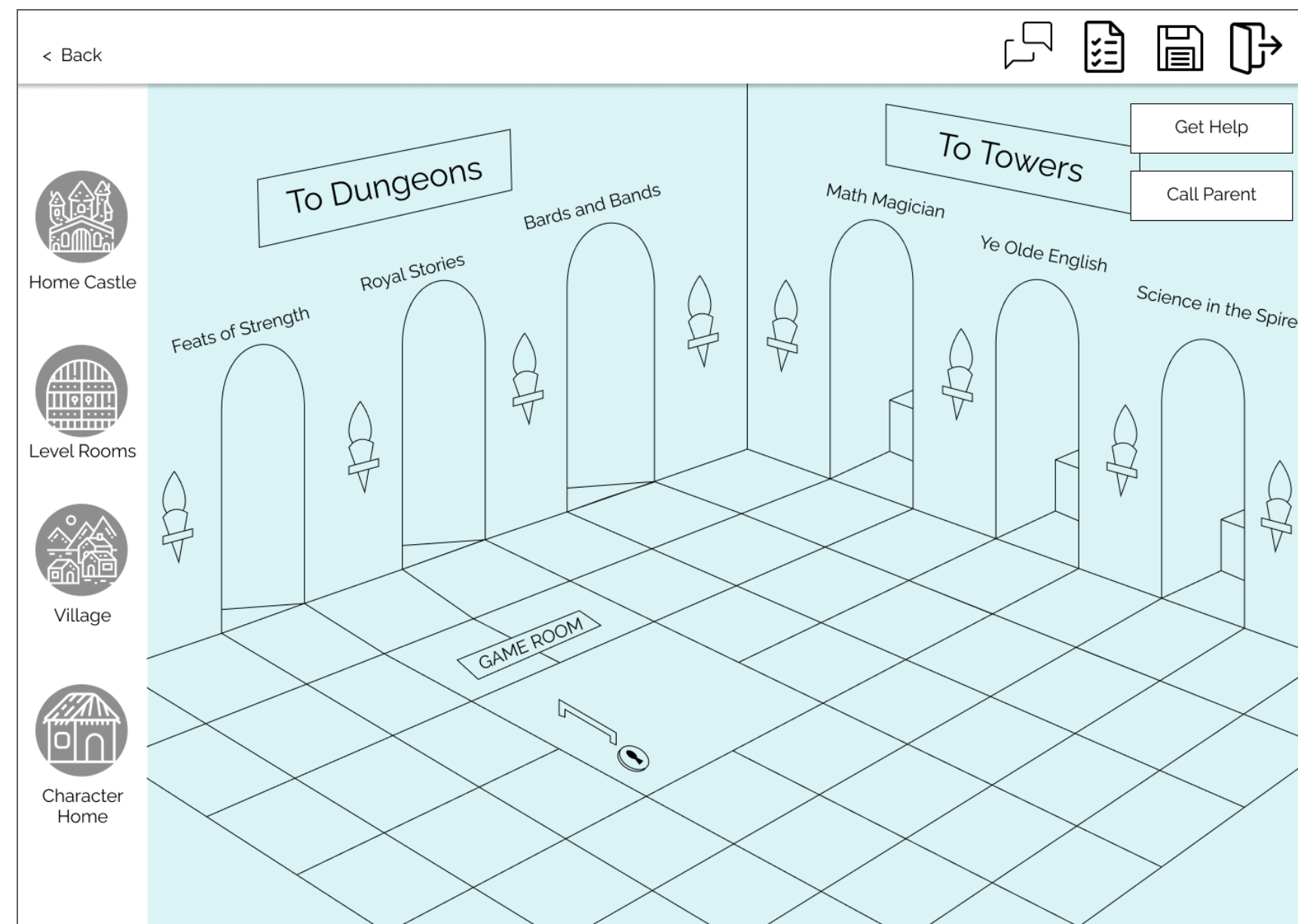


Message Center

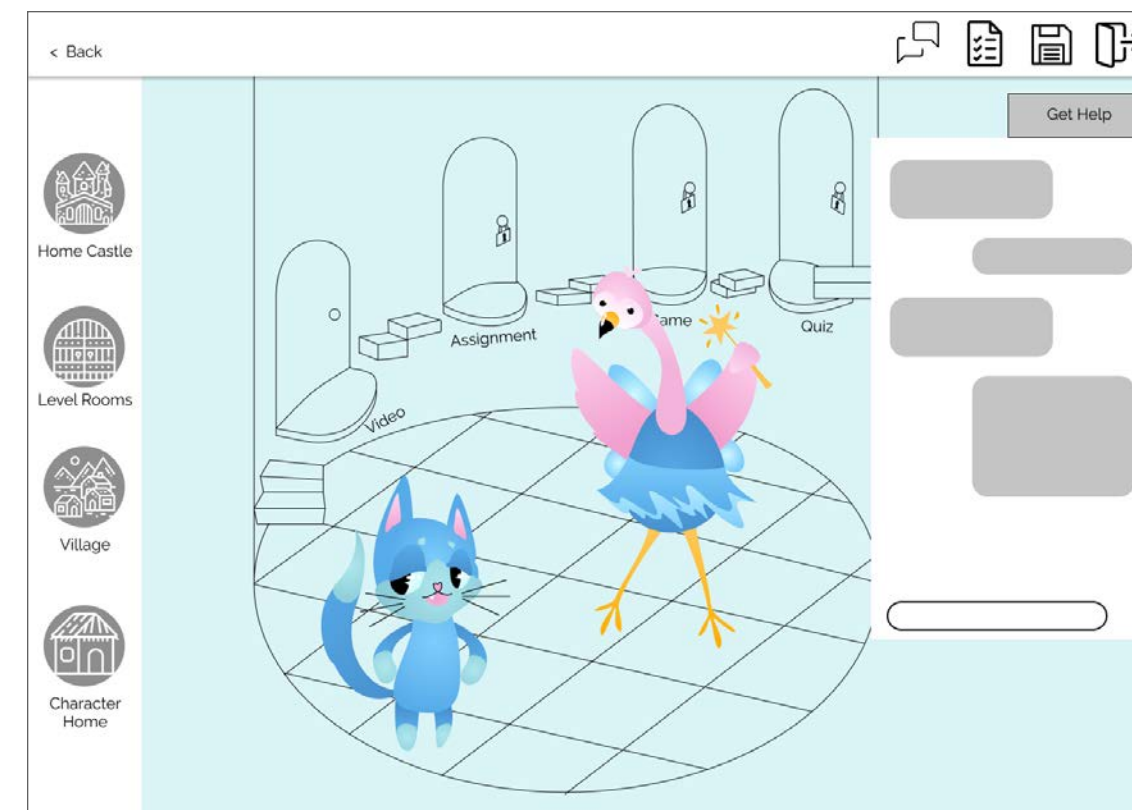


Character

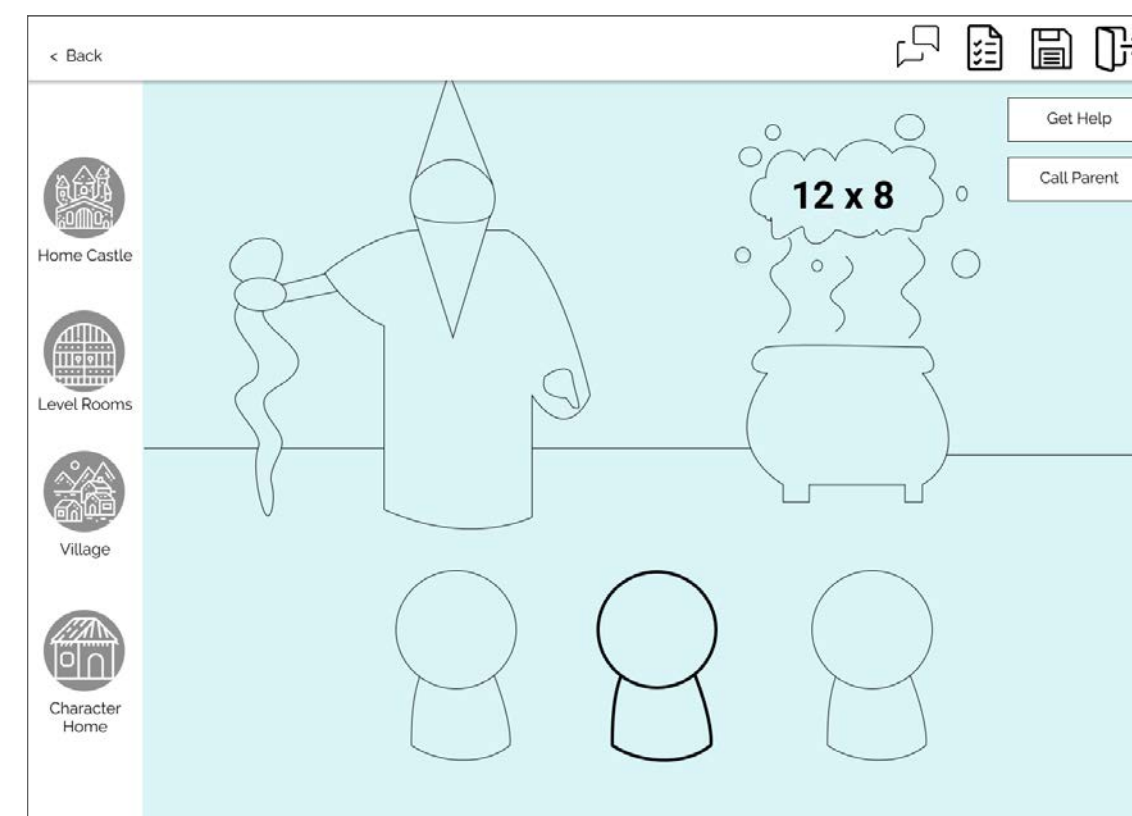
50 | Student prototype



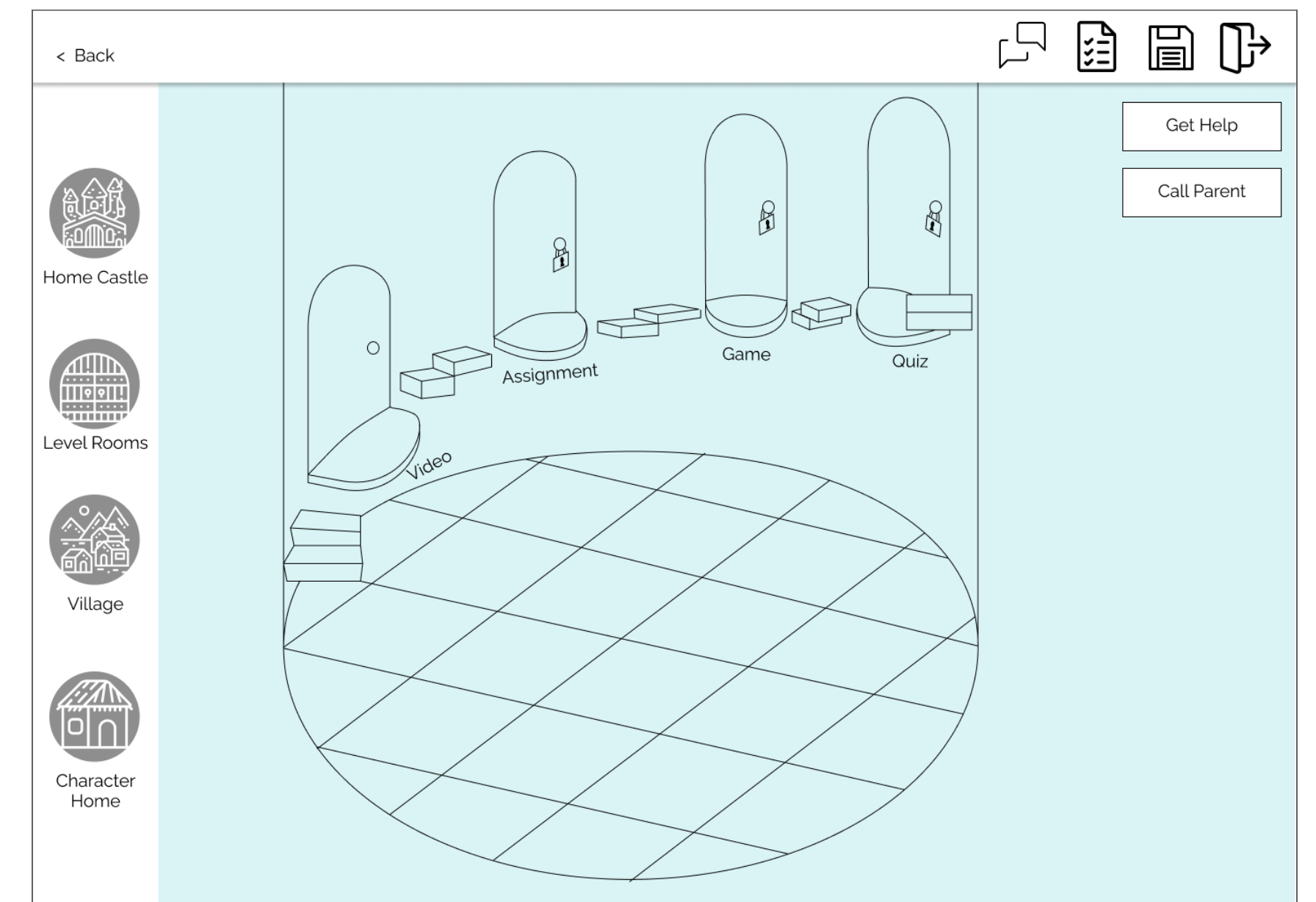
Hub World



Calling for Help

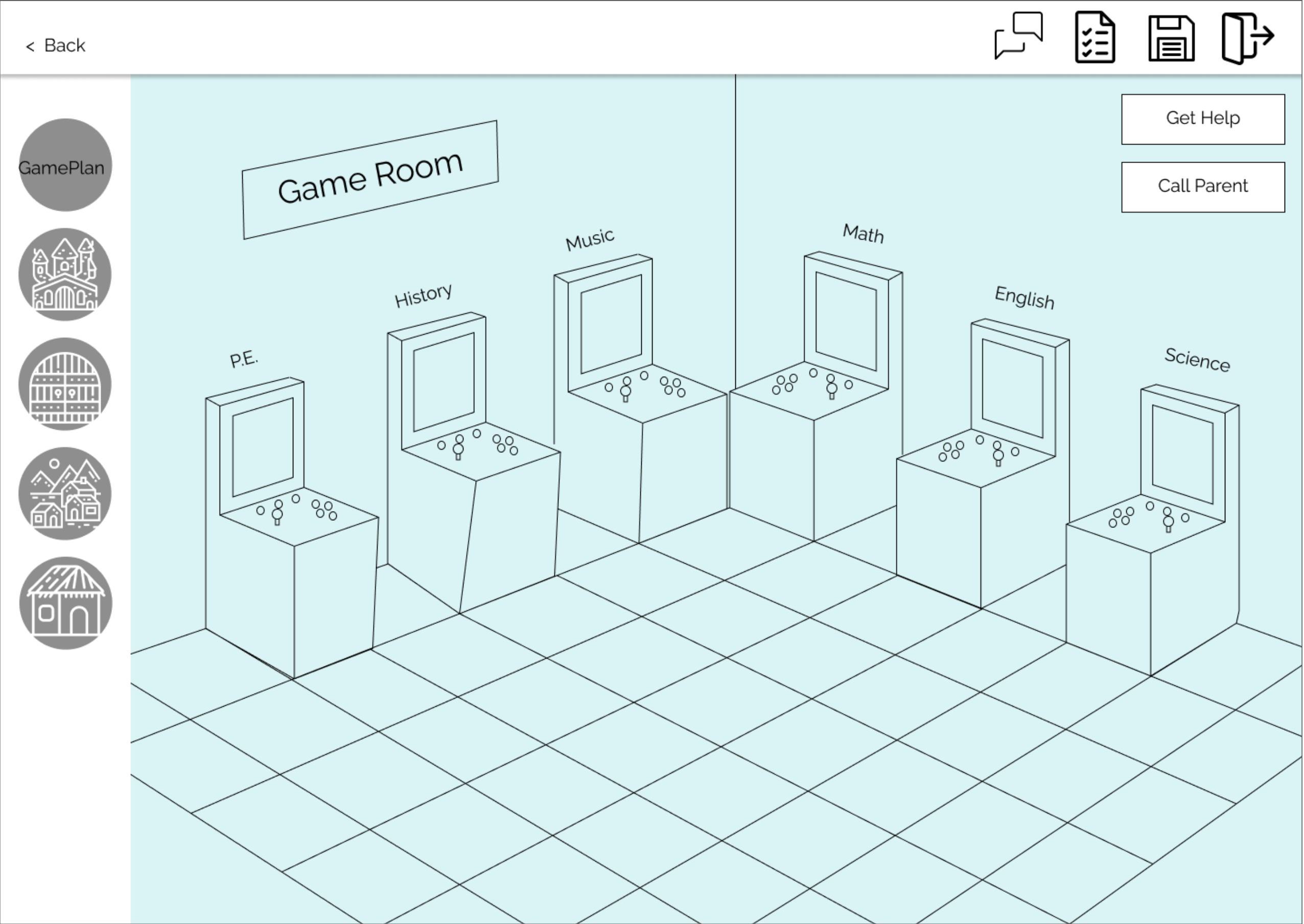


Game Play

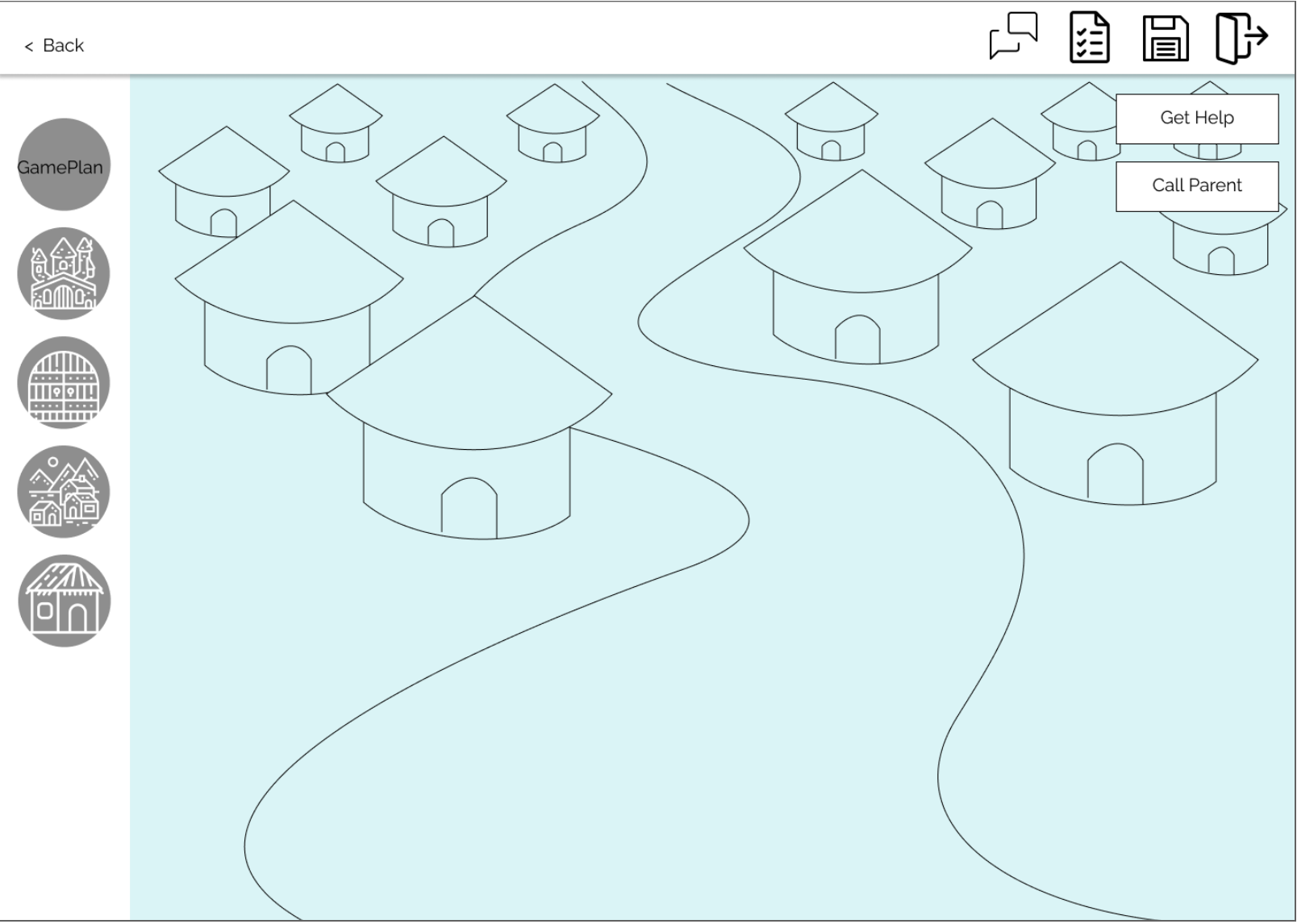


Level Rooms

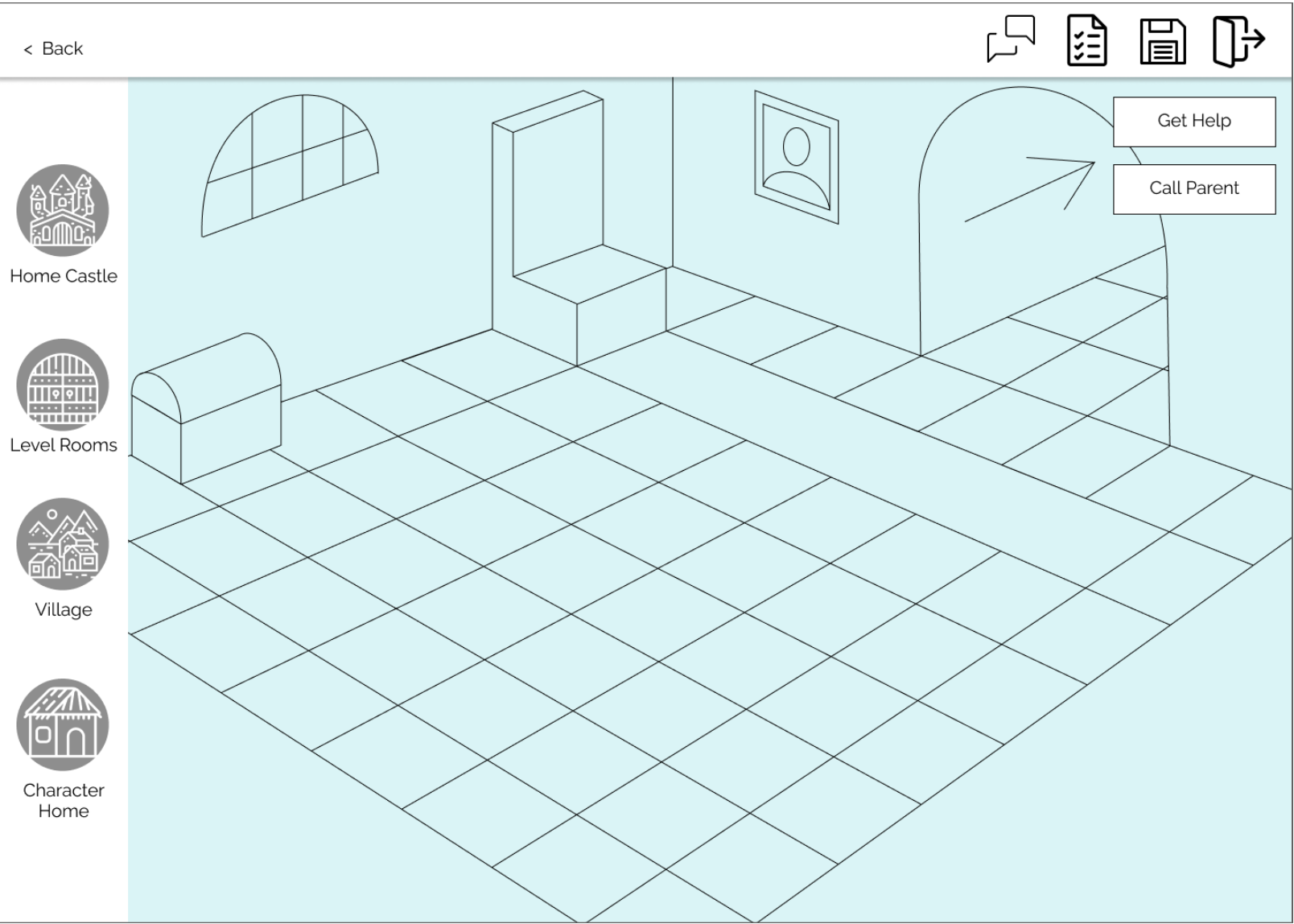
51 | Student prototype



Game Room

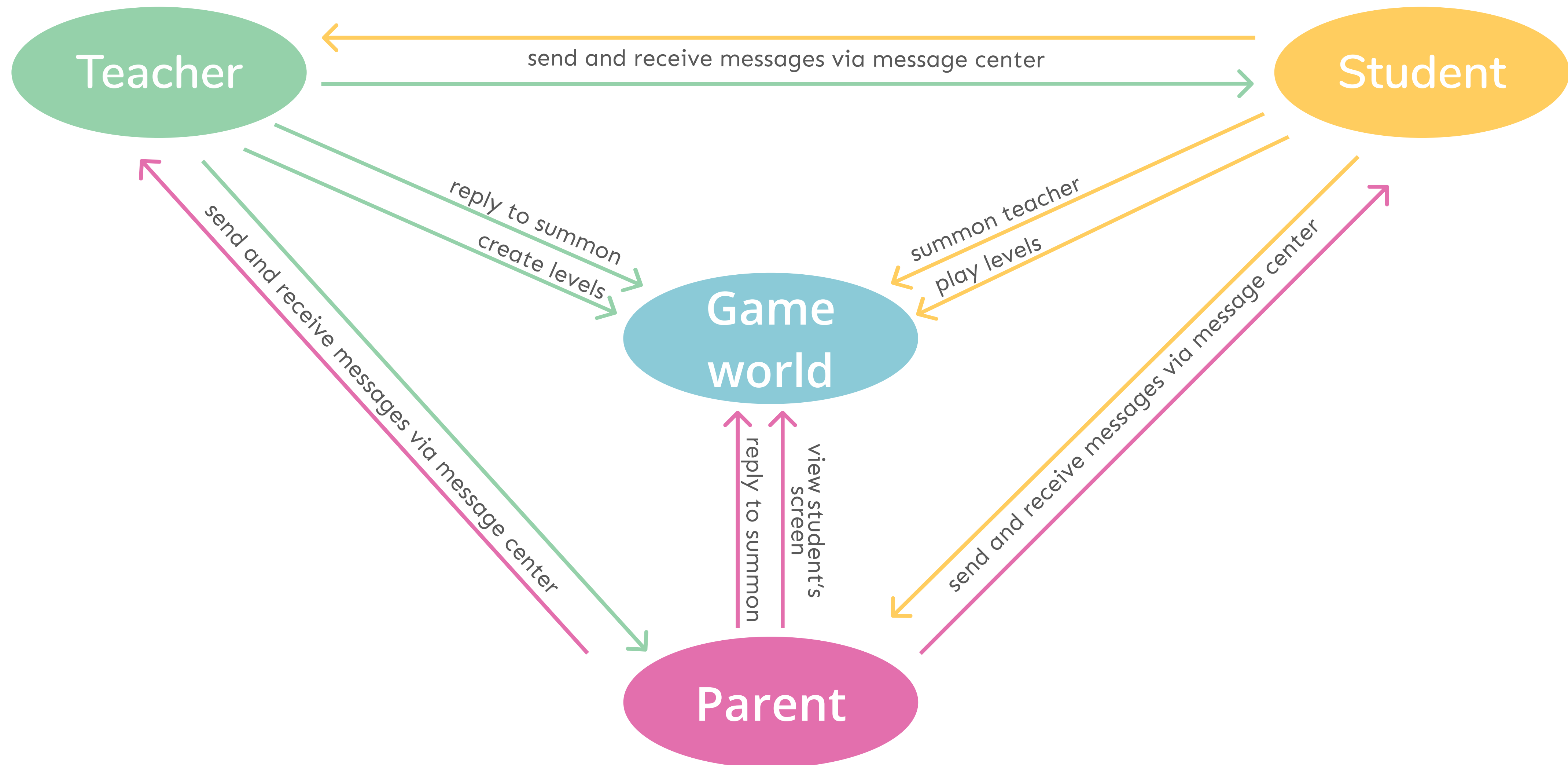


Village



Player House

52 | Interaction model- game



5 User tests
with teachers and parents

4 User tests
with elementary students

1 Expert test
with UX designer, Angela Martin

Concept Based

- To determine if a universal platform is viable and preferred
- Improve communication bridge between parents, teachers, and students
- The system builds understanding of roles parents and teachers play in a child's education

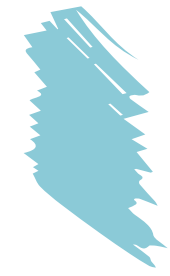
Design Based

- Discover if all features of the platform are well integrated and easy to navigate
- Narrow down color and typeface choice
- Confirm labels align with users' mental models
- gauge user confidence when using our platform

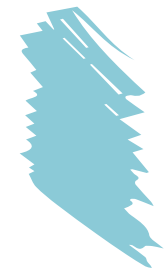
“I wouldn’t use the [hourly] agenda. It’s not helpful for how I plan my classes.”

“If our school district had this, I would use it frequently.”

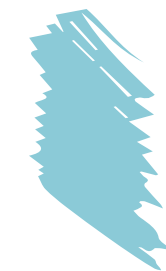
“This [interface] is laid out a nicer and neater [than what I was using], and functions like an actual page taken out of a planner.”



Redundant Calendars / Agendas



**Poor Connection Between Parent
and Teacher Agendas**



Difficulty Orienting Self

Confusion: Calendar found under ‘Lessons’ and ‘Agenda’

‘Lessons’ will be used for the creation of lessons while the calendar will exist only in ‘Agenda’ to schedule

GamePlan

Classroom

Lessons

Assignments

Agenda

Message Center

Create lessons

View Pre-made Lessons

My Lessons

Math Lesson 1

Short description

Science Lesson 6

Short description

English Lesson 4

Short description

Spanish Lesson 1

Short description

Spanish Lesson 1

Short description

day

week

month

Week of Oct. 12

share

Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16
	Math Lesson 3 Short description	English Lesson 3 Short description Science Lesson 1 Short description		

Teacher Interface- Calendar to add lessons

GamePlan

Classroom

Lessons

Assignments

Agenda

Message Center

Add Time Block

Edit

Student Agenda

week

month

Week of Oct. 12

share

	Mon. 12	Tues. 12	Wed. 12	Thurs. 13	Fri. 14
07:00					
08:00	Math Lesson 3 www.zoom.com/sfda	English Lesson 2 www.zoom.com/sfda	Assignment 3	Math Lesson 5 www.zoom.com/sfda	Science Lesson 7 www.zoom.com/sfda
09:00	Break	Break	Break	Break	Break
10:00	Science Lesson 3 www.zoom.com/sfda	Assignment 2	Social Studies Lesson 2 www.zoom.com/sfda	Assignment 5	Assignment 8
11:00			Assignment 4	Assignment 6	
12:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00	Assignment 1	Spanish Lesson 1 www.zoom.com/sfda	Science Lesson 5 www.zoom.com/sfda	English Lesson 1 www.zoom.com/sfda	Spanish Lesson 1 www.zoom.com/sfda
14:00					
15:00					

Teacher Interface- Calendar to schedule day

58 | Poor connection between parent and teacher agendas

Question: Will teachers see additions to agenda made by parent?

The ability to alert a teacher to time blocks added by parents is not clearly shown in the interfaces

GamePlan

LessonsAssignmentsAgendaStudent ProgressMessage Center

?

Add Time Block

Edit

Student Agenda

weekmonth

◀ Week of Oct. 12 ▶

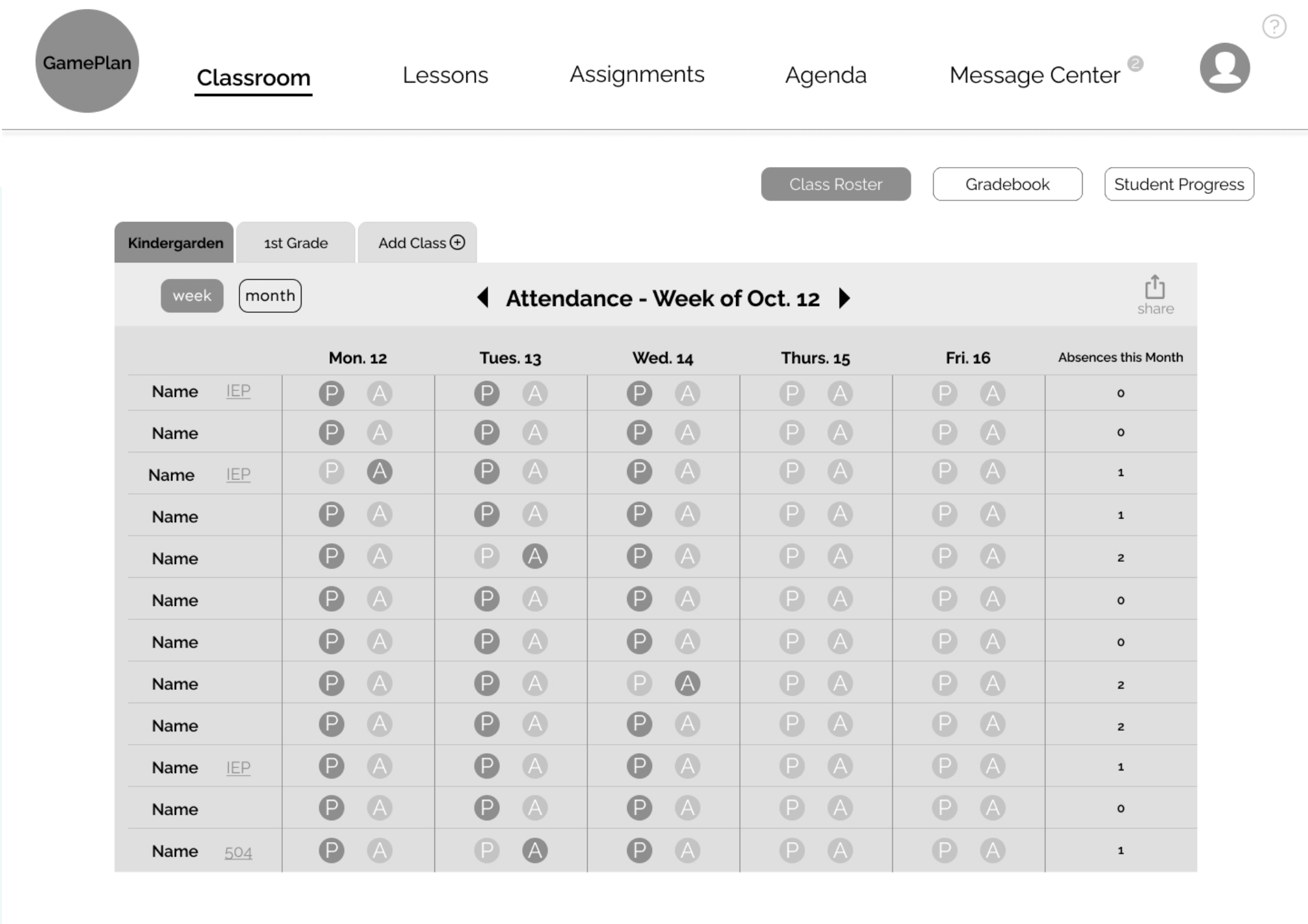
share

	Mon. 12	Tues. 12	Wed. 12	Thurs. 13	Fri. 14
07:00					
08:00	Math Lesson 3 www.zoom.com/sfda	English Lesson 2 www.zoom.com/sfda	Assignment 3	Math Lesson 5 www.zoom.com/sfda	Science Lesson 7 www.zoom.com/sfda
09:00	Break	Break	Break		
10:00	Science Lesson 3 www.zoom.com/sfda	Assignment 2	Social Studies Lesson 2 www.zoom.com/sfda	Break	Break
11:00			Assignment 4	Assignment 5	Assignment 8
12:00	Lunch	Lunch	Lunch	Assignment 6	
13:00	Assignment 1	Spanish Lesson 1 www.zoom.com/sfda	Science Lesson 5 www.zoom.com/sfda	Lunch	Lunch
14:00				English Lesson 1 www.zoom.com/sfda	Spanish Lesson 1 www.zoom.com/sfda
15:00	Piano Lesson		Soccer Practice		

Parent Interface- Added time blocks for extra-cirriculars

Tabs for classes are not accessible as part of the global navigation

Add tabs for classes in the global menu, or make the classes easier to find



Teacher Interface- Class tabs on top of attendance

60 | System usability scale questionnaire

I think that I would like to use this system frequently.

I found the system unnecessarily complex.

I thought the system was easy to use.

I think that I would need the support of a technical person to be able to use this system.

I found the various functions in this system were well integrated.

I thought there was too much inconsistency in this system.

I would imagine that most people would learn to use this system very quickly.

I found the system very cumbersome to use.

I felt very confident using the system.

I needed to learn a lot of things before I could get going with this system.

89.5

System Usability Scale

Average Score, n=5

62 | UX expert testing- Angela Martin

GOAL: Analyze UI and IA for maximum usability

Successes:

- Labels are consistent across three user platforms
- Platform is streamlined

Areas for Improvement:

- Text size can be reduced to free up design space
- Agenda in both "Lessons" and "Agenda" is redundant

LOGO HERE! Classroom Lessons Assignments Agenda Message Center²

kindergarten 1st grade add class

class roster gradebook student progress

week month Attendance - Week of Oct. 12 share

	Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16	absences this week	absences this month
Colleen Miller IEP	P A	P A	P A	P A	P A	0	0
Eduardo Alfonso	P A	P A	P A	P A	P A	1	2
Hagar Baruch	P A	P A	P A	P A	P A	0	0
Jasmine Attanasio IEP	P A	P A	P A	P A	P A	0	1
Jiyoung Lee	P A	P A	P A	P A	P A	0	0
Jonathan Sanchez	P A	P A	P A	P A	P A	1	1
Kelechi Ogbuaku	P A	P A	P A	P A	P A	0	0
Kelly Pobgee	P A	P A	P A	P A	P A	0	0
Leonardo Caballero 504	P A	P A	P A	P A	P A	0	0
Maddy Esper	P A	P A	P A	P A	P A	0	0
Madison Jason	P A	P A	P A	P A	P A	0	0
Maik Rieffenstahl	P A	P A	P A	P A	P A	2	2
Max Polisenio IEP	P A	P A	P A	P A	P A	0	0
Peter Breissinger	P A	P A	P A	P A	P A	0	0
Taylor Primuth	P A	P A	P A	P A	P A	0	1
Tang Tantivirun	P A	P A	P A	P A	P A	0	0

Green + Yellow interface presents usability problems for people with color blindness

LOGO HERE! Classroom Lessons Assignments Agenda Message Center²

kindergarten 1st grade add class

class roster gradebook student progress

week month Attendance - Week of Oct. 12 share

	Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16	absences this week	absences this month
Colleen Miller IEP	P A	P A	P A	P A	P A	0	0
Eduardo Alfonso	P A	P A	P A	P A	P A	1	2
Hagar Baruch	P A	P A	P A	P A	P A	0	0
Jasmine Attanasio IEP	P A	P A	P A	P A	P A	0	1
Jiyoung Lee	P A	P A	P A	P A	P A	0	0
Jonathan Sanchez	P A	P A	P A	P A	P A	1	1
Kelechi Ogbuaku	P A	P A	P A	P A	P A	0	0
Kelly Pobgee	P A	P A	P A	P A	P A	0	0
Leonardo Caballero 504	P A	P A	P A	P A	P A	0	0
Maddy Esper	P A	P A	P A	P A	P A	0	0
Madison Jason	P A	P A	P A	P A	P A	0	0
Maik Rieffenstahl	P A	P A	P A	P A	P A	2	2
Max Polisenio IEP	P A	P A	P A	P A	P A	0	0
Peter Breissinger	P A	P A	P A	P A	P A	0	0
Taylor Primuth	P A	P A	P A	P A	P A	0	1
Tang Tantivirun	P A	P A	P A	P A	P A	0	0

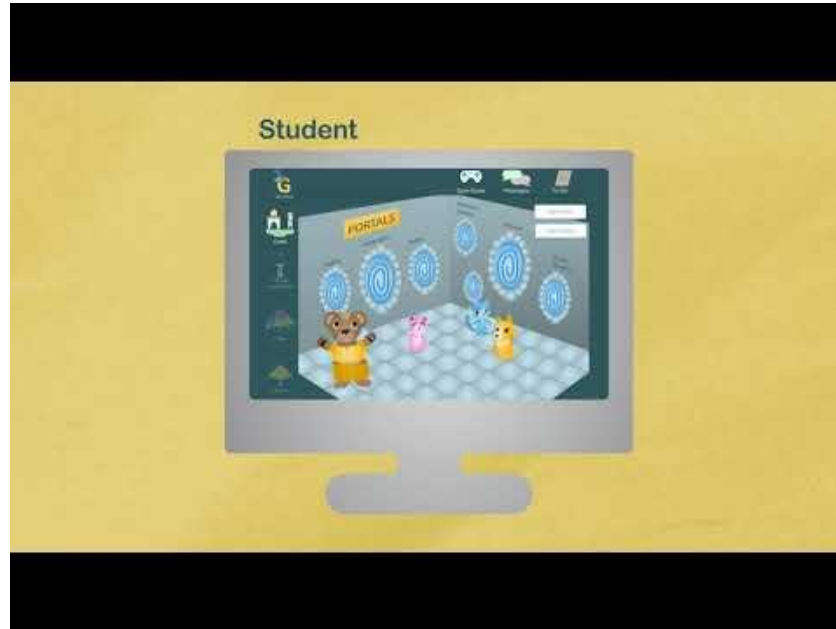
Blue + Yellow combination is preferred because it is a limited palette with strong contrast

GamePlan

Finalized Concept



34 | Vision Video



In collaboration with Mel Petzoldt

65 | Teacher blueprint



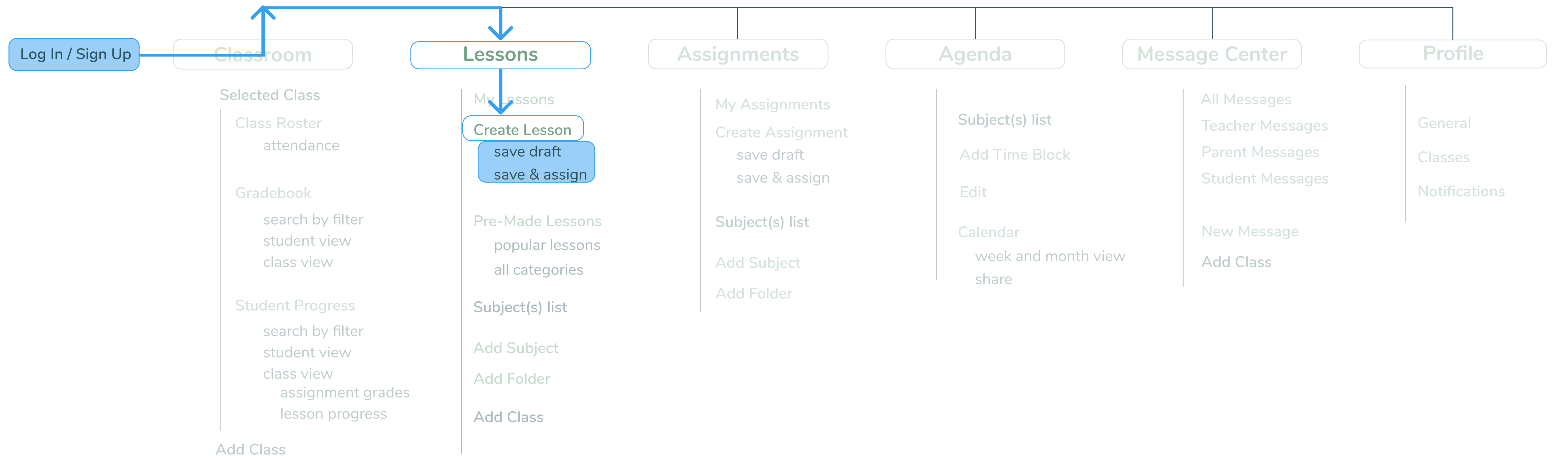
LEGEND

Global Menu Item

Local Menu

page selection options

66 | Teacher taskflow- create a lesson



LEGEND

Start / End

Global Menu Item

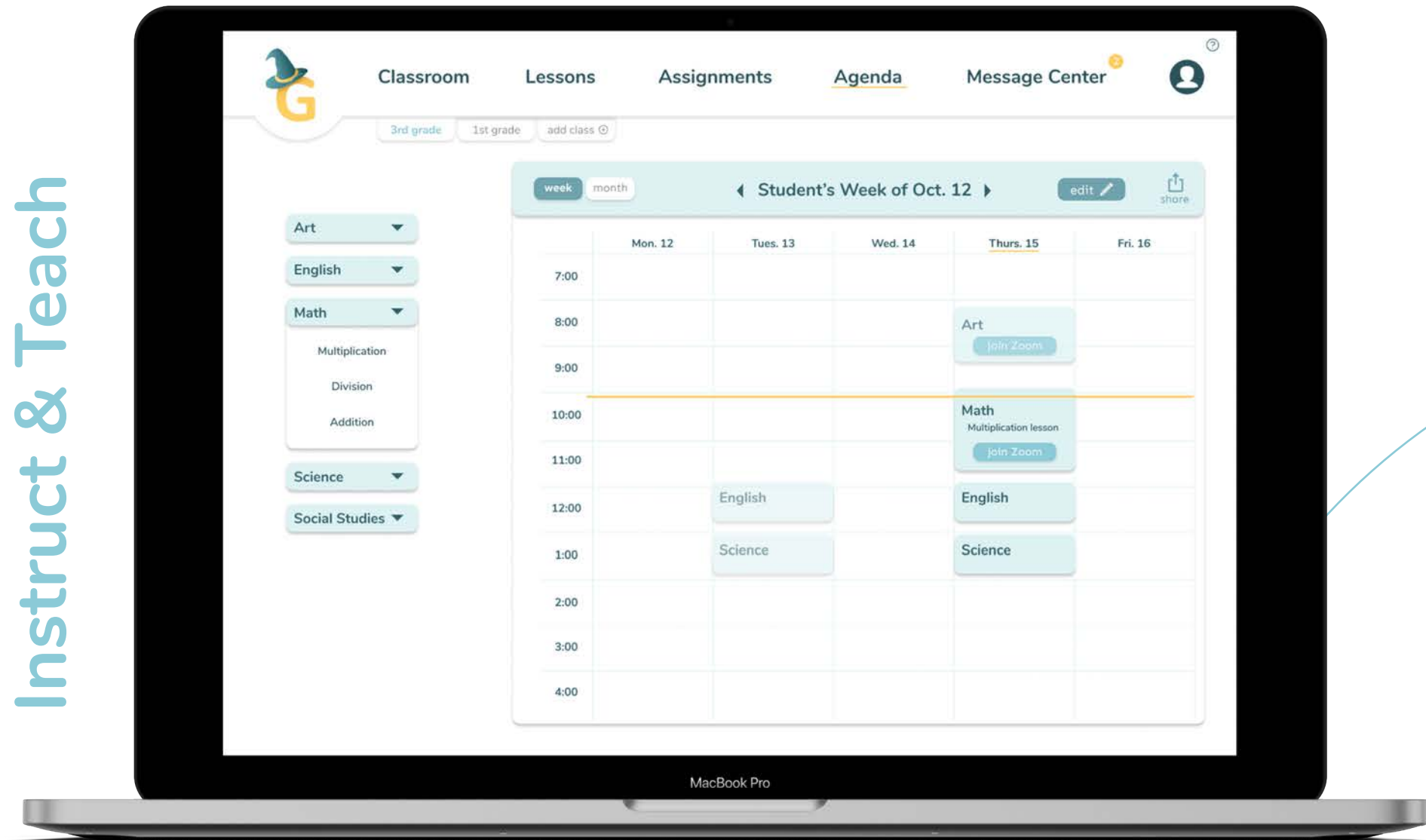
Clickable menu item

Local Menu

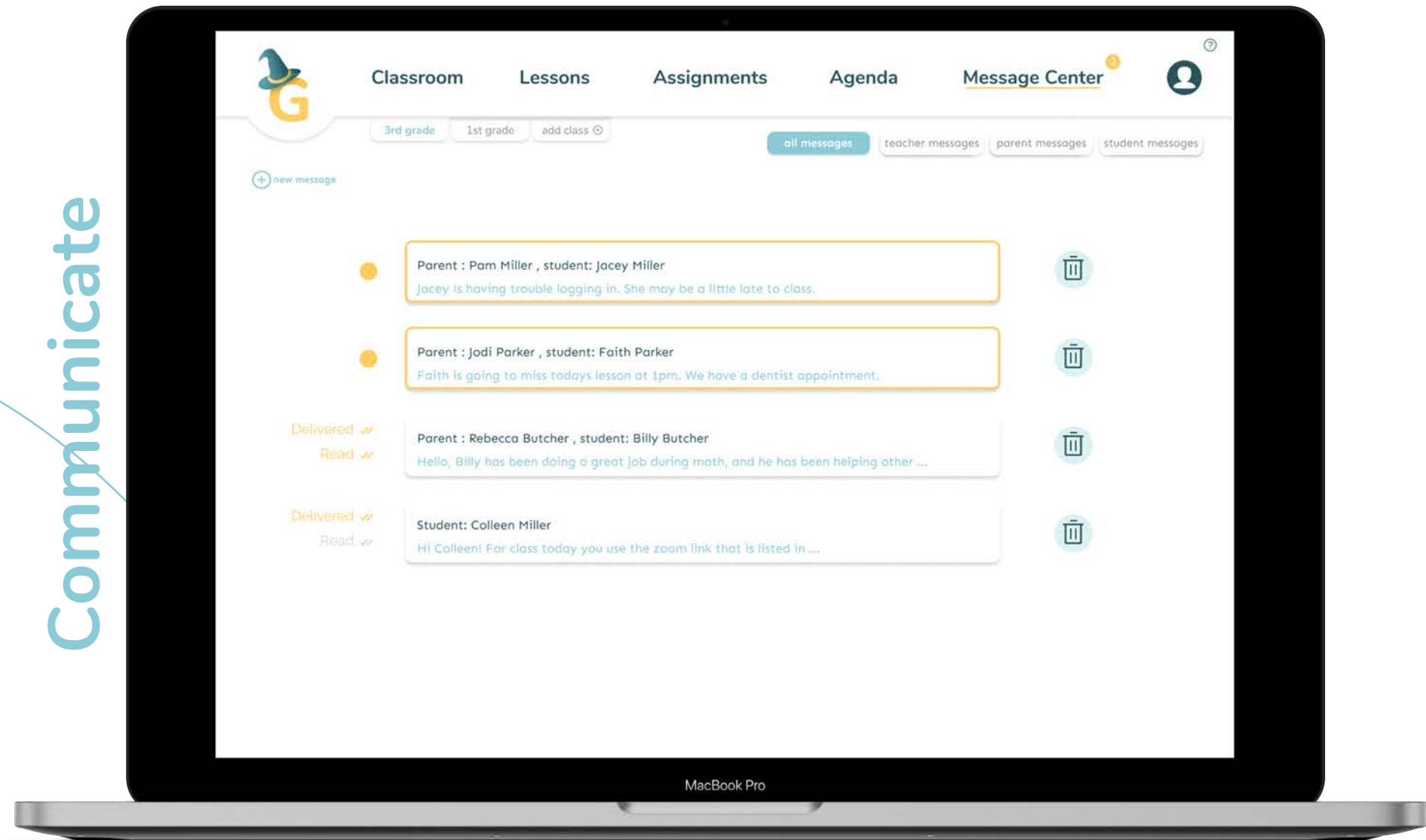
Task flow direction

page selection options

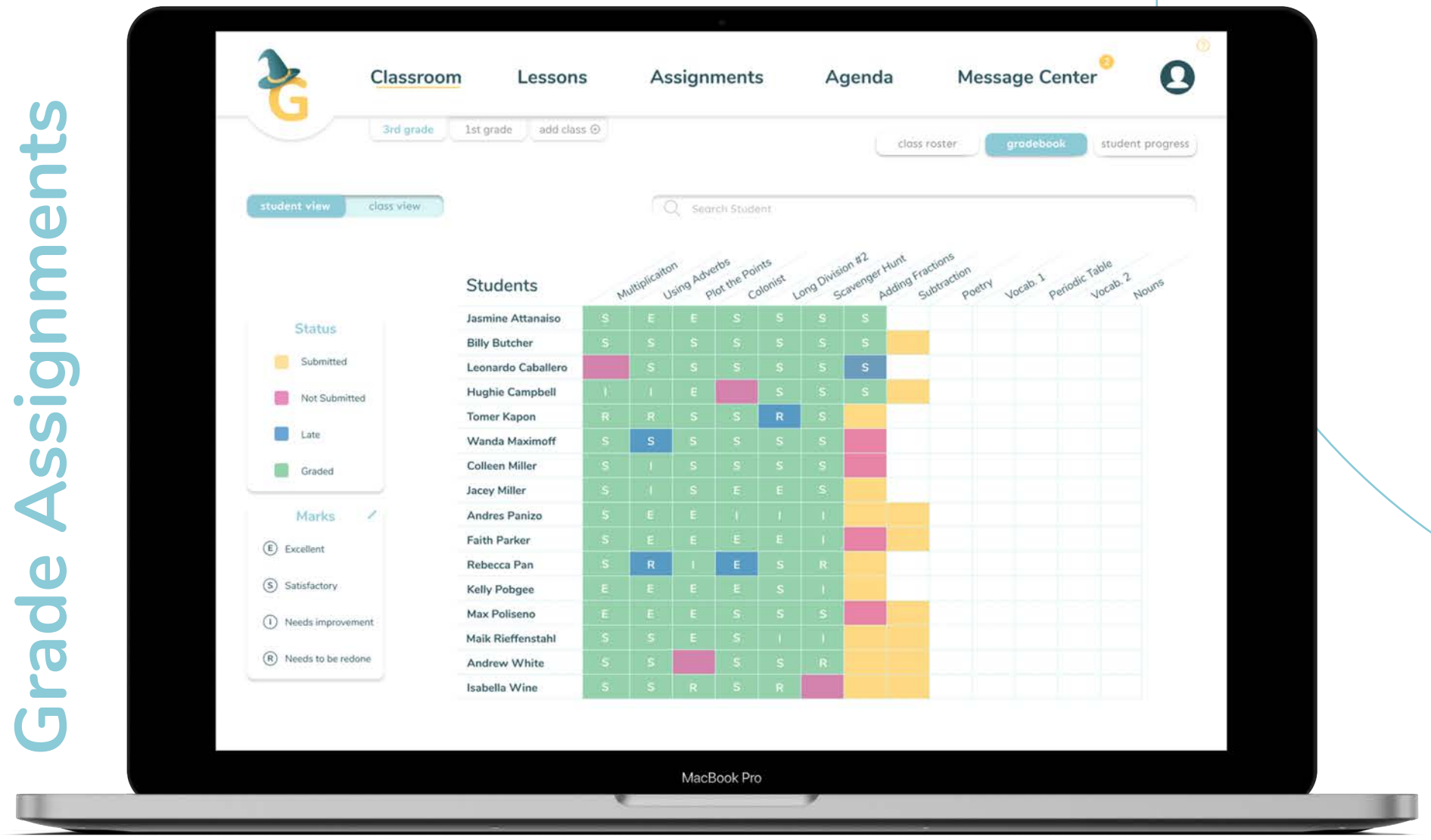
Instruct & Teach



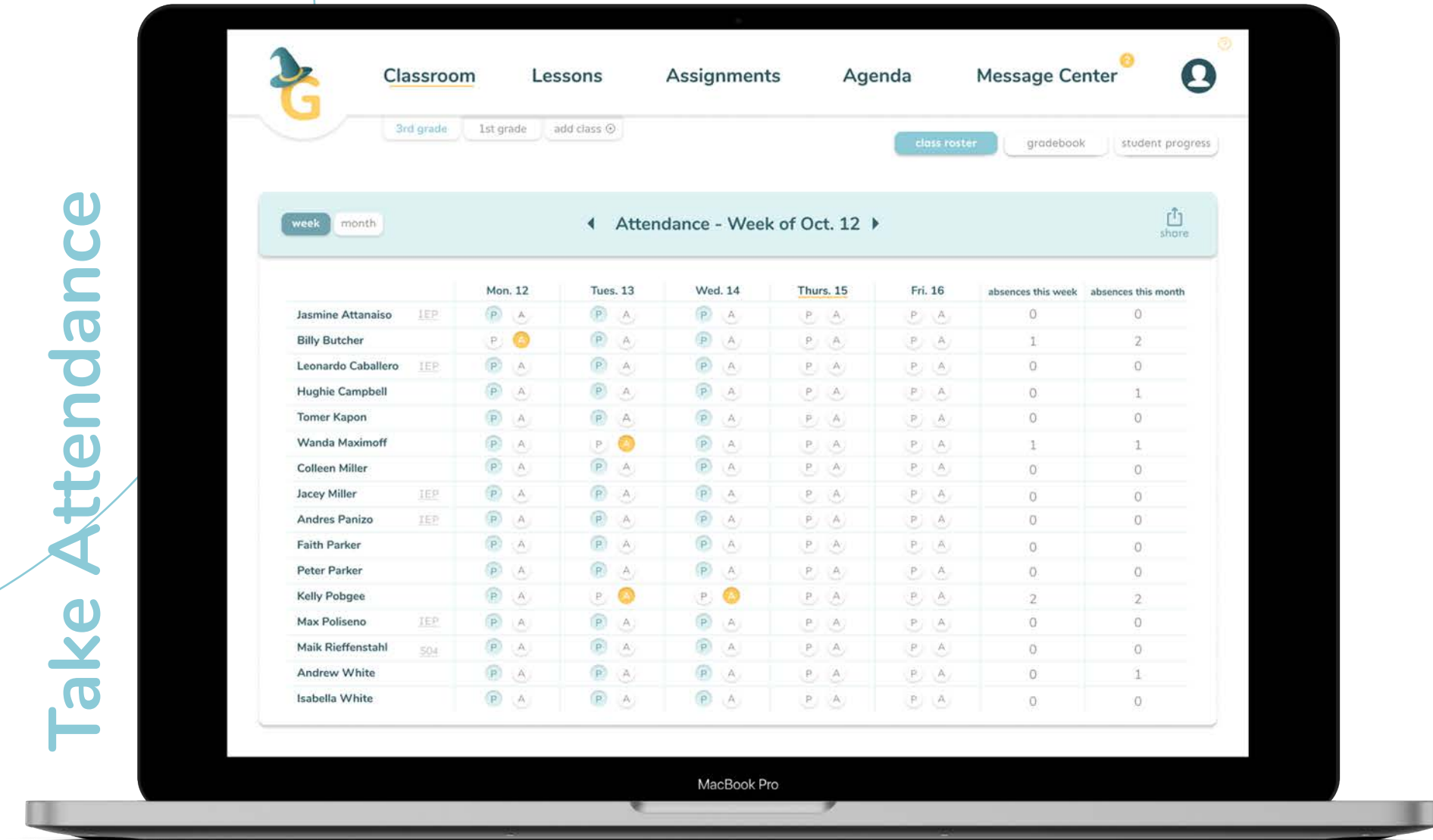
Communicate



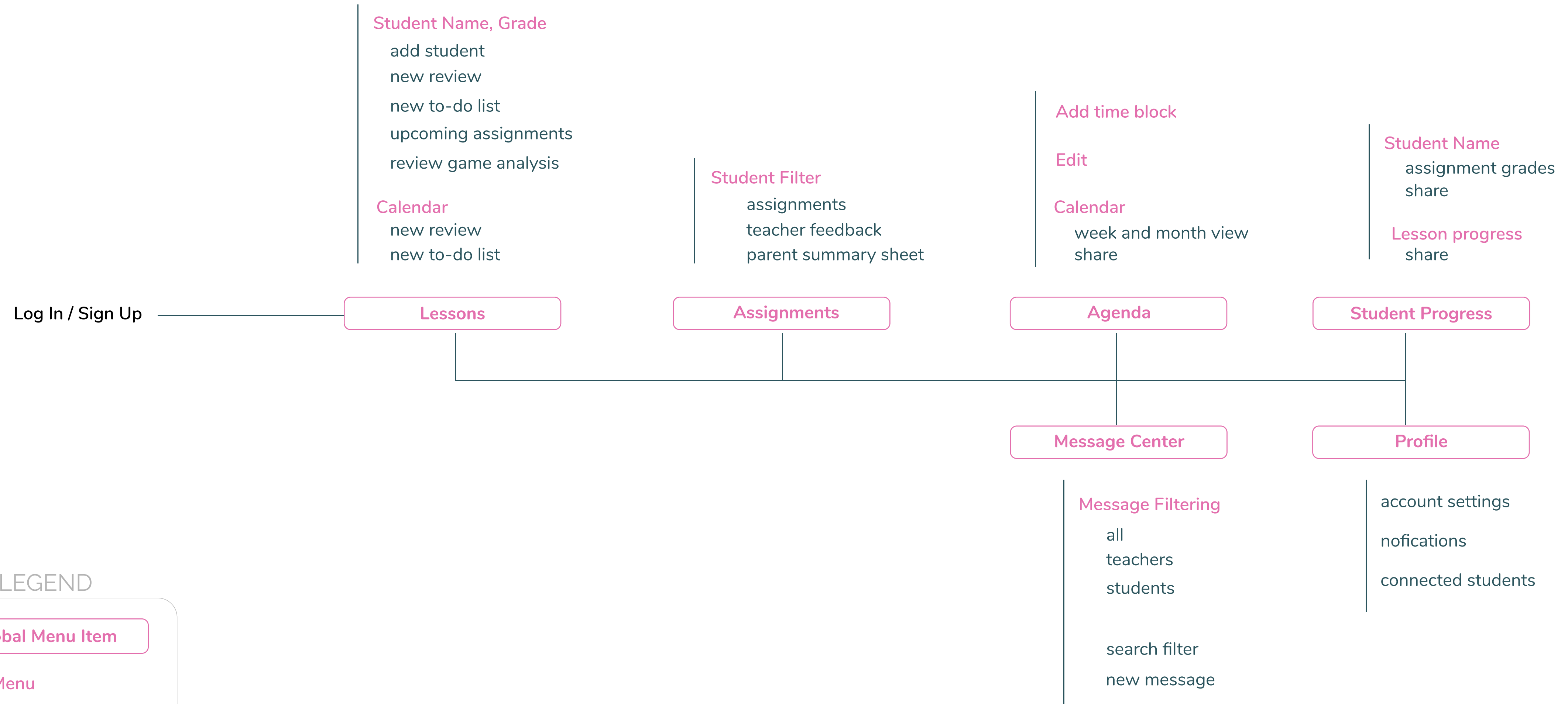
Grade Assignments



Take Attendance



68 | Parent blueprint



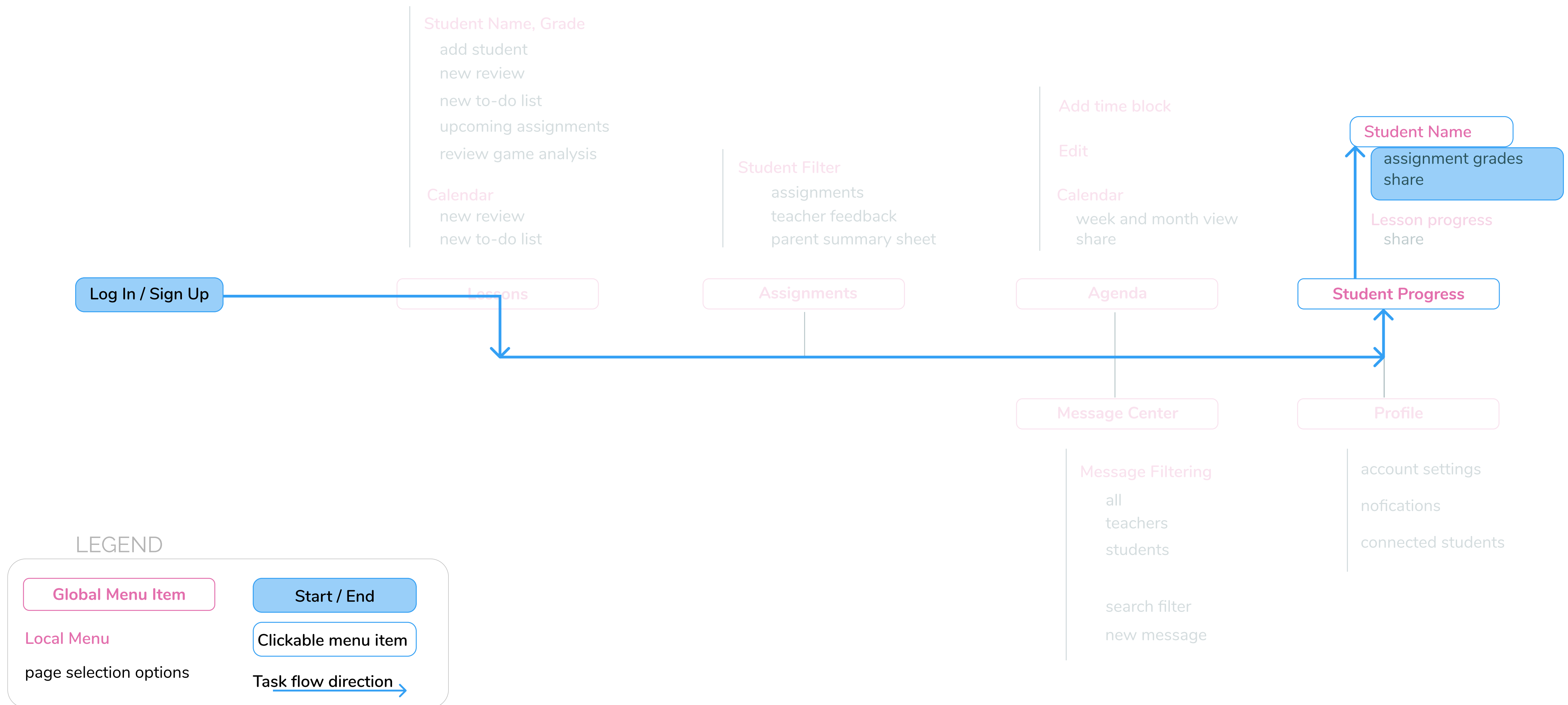
LEGEND

Global Menu Item

Local Menu

page selection options

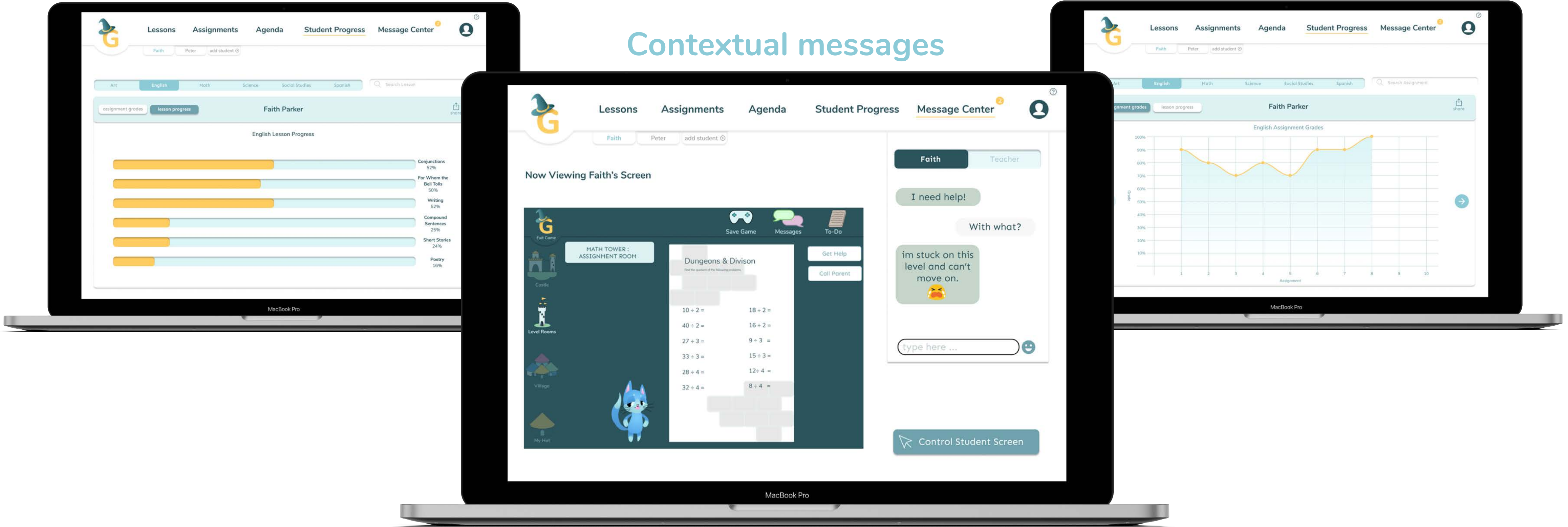
69 | Parent taskflow- monitor student progress



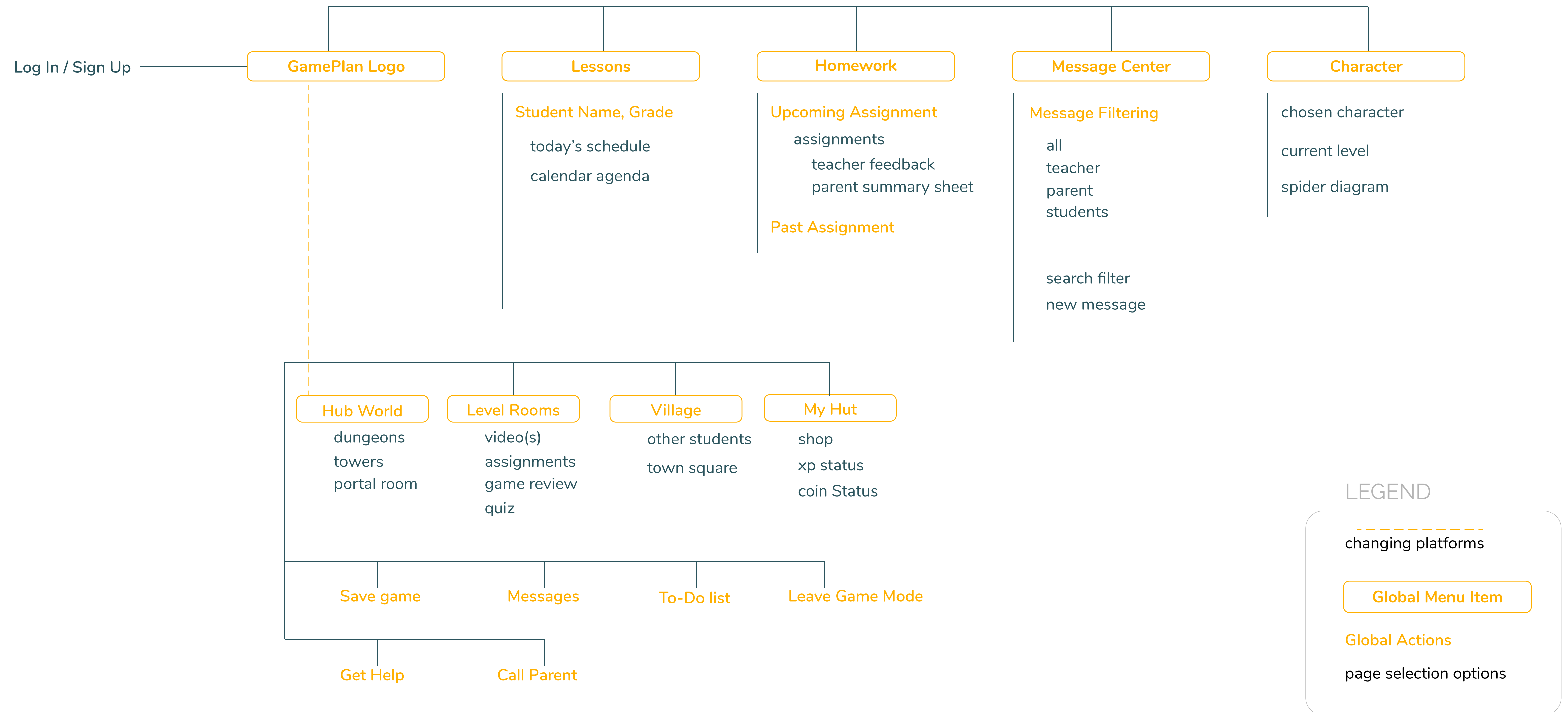
Track lesson progress

Contextual messages

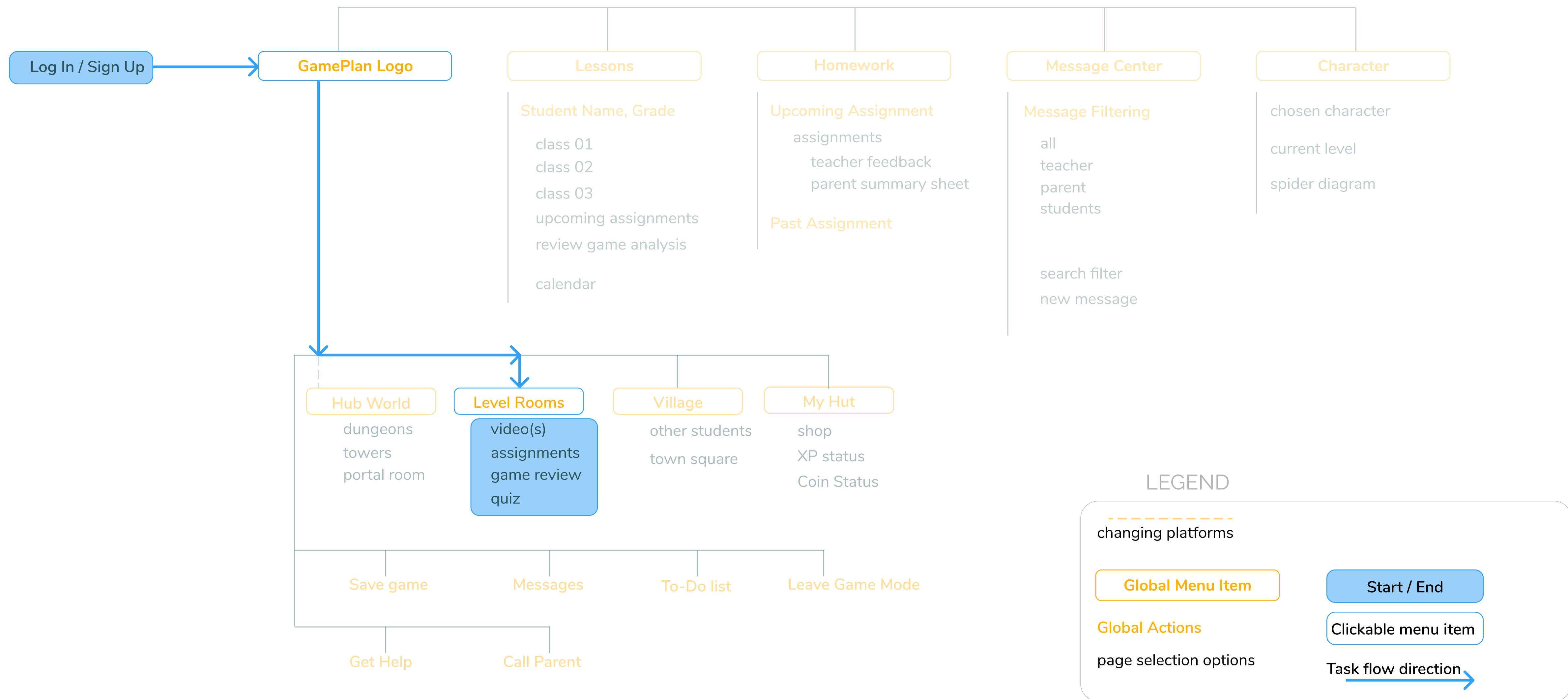
View grades



71 | Student blueprint



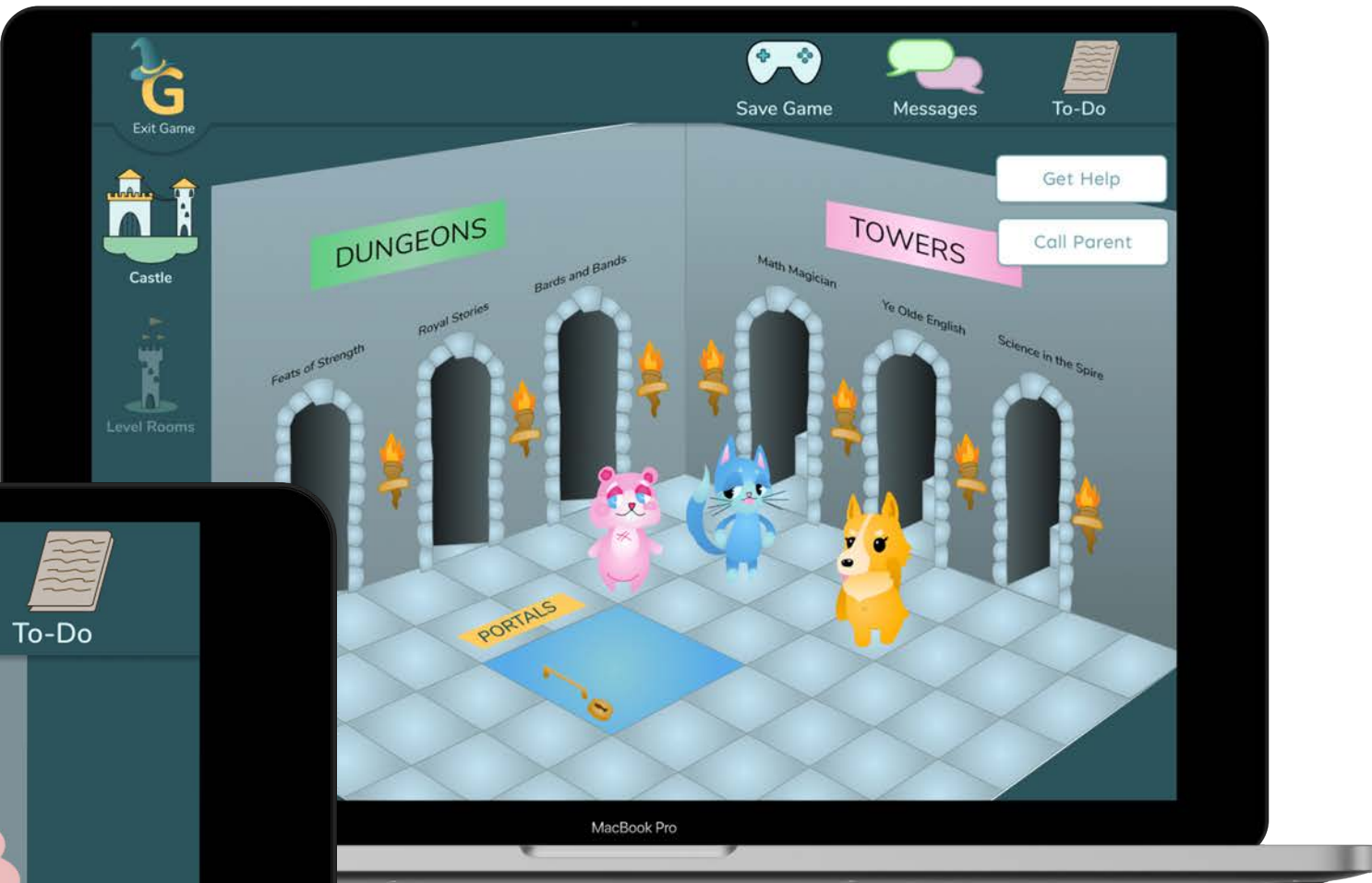
72 | Student taskflow- complete an assignment



Level rooms

Hub world

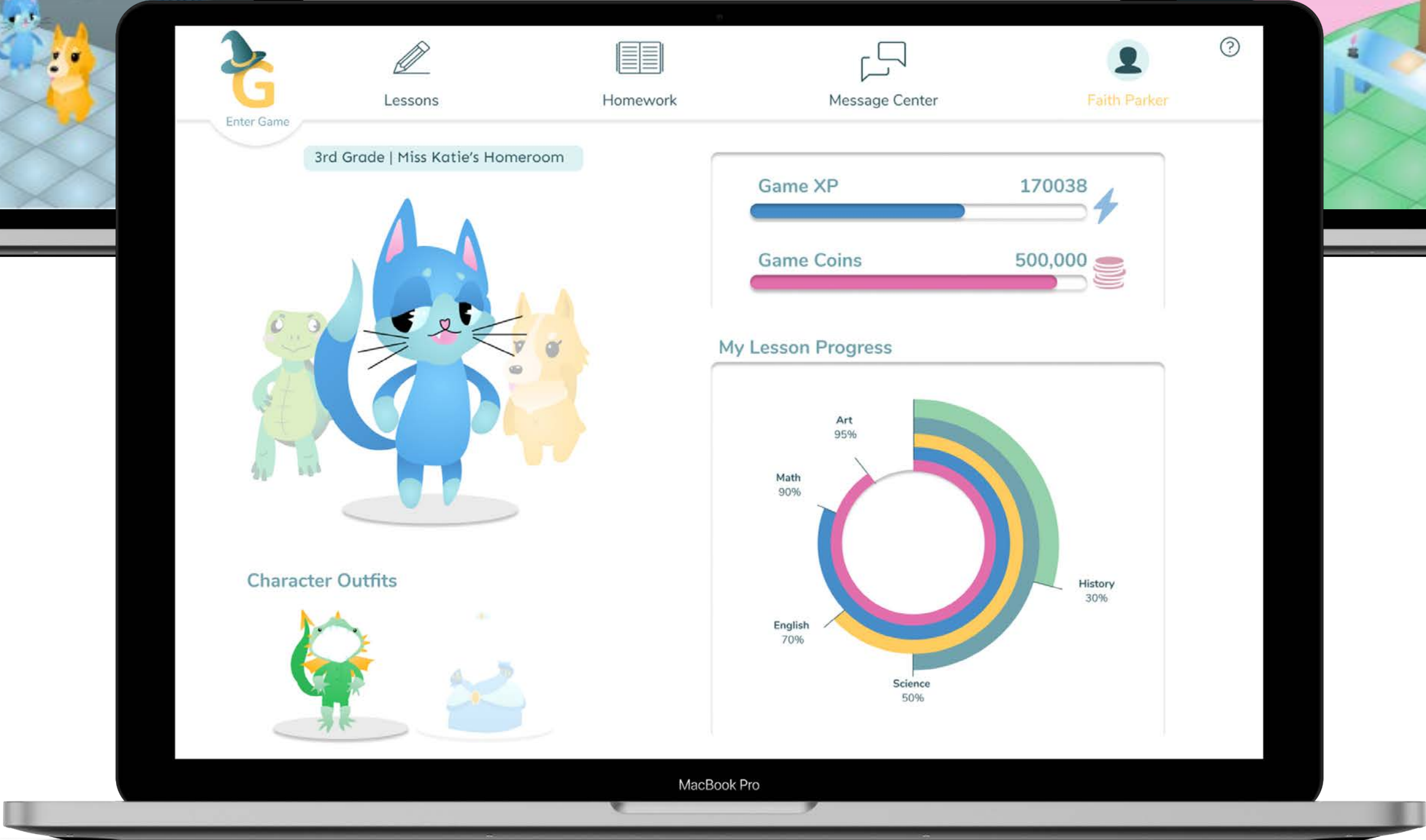
Gamified lessons



Educational games

Student homes

Character & progress



How might we improve upon the social development and structure of the in person education experience through online learning?

- Built to balance a busy lifestyle
- Fosters connection between students, teachers, and parents
- Adaptable learning platform
- Univeriversal platform

Applications for the future

- Personalized learning
- Communication with parent and teacher
- Parents more involved
- Makes learning fun

Appendix of Screens

i

GamePlan screens- teacher

Classroom

Lessons

Assignments

Agenda

Message Center ²

3rd grade

1st grade

add class

class roster

gradebook

student progress

week

month

Attendance - Week of Oct. 12

	Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16	absences this week	absences this month
Jasmine Attanaio	P A	P A	P A	P A	P A	0	0
Billy Butcher	P A	P A	P A	P A	P A	1	2
Leonardo Caballero	P A	P A	P A	P A	P A	0	0
Hughie Campbell	P A	P A	P A	P A	P A	0	1
Tomer Kapon	P A	P A	P A	P A	P A	0	0
Wanda Maximoff	P A	P A	P A	P A	P A	1	1
Colleen Miller	P A	P A	P A	P A	P A	0	0
Jacey Miller	P A	P A	P A	P A	P A	0	0
Andres Panizo	P A	P A	P A	P A	P A	0	0
Faith Parker	P A	P A	P A	P A	P A	0	0
Peter Parker	P A	P A	P A	P A	P A	0	0
Kelly Pobgee	P A	P A	P A	P A	P A	2	2
Max Poliseno	P A	P A	P A	P A	P A	0	0
Maik Rieffenstahl	P A	P A	P A	P A	P A	0	0
Andrew White	P A	P A	P A	P A	P A	0	1
Isabella White	P A	P A	P A	P A	P A	0	0

Classroom

Lessons

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Message Center ²

3rd grade

1st grade

add class

class roster

gradebook

student progress

student view

class view

Search Student

assignment grades

lesson progress

Faith Parker

Lesson Progress

Conjunctions	52%
For Whom the Bell Tolls	50%
Writing	52%
Compound Sentences	25%
Short Stories	24%
Poetry	16%

Classroom

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Assignments

Agenda

Message Center ²

3rd grade

1st grade

add class

class roster

gradebook

student progress

student view

class view

Search Student

Status

Marks

Students

	Multiplication	Using Adverbs	Plot the Points	Colonist	Long Division #2	Scavenger Hunt	Adding Fractions	Poetry	Vocab. 1	Periodic Table	Vocab. 2	Nouns
Jasmine Attanaio	S	E	E	S	S	S	S					
Billy Butcher	S	S	S	S	S	S	S					
Leonardo Caballero		S	S	S	S	S	S					
Hughie Campbell	I	I	E		S	S	S					
Tomer Kapon	R	R	S	S	R	S						
Wanda Maximoff	S	S	S	S	S	S						
Colleen Miller	S	I	S	S	S	S						
Jacey Miller	S	I	S	E	E	S						
Andres Panizo	S	E	E	I	I	I						
Faith Parker	S	E	E	E	E	I						
Rebecca Pan	S	R	I	E	S	R						
Kelly Pobgee	E	E	E	E	S	I						
Max Poliseno	E	E	E	S	S	S						
Maik Rieffenstahl	S	S	E	S	I	I						
Andrew White	S	S		S	S	R						
Isabella Wine	S	S	R	S	R							

Classroom

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Message Center ²

3rd grade

1st grade

add class

class roster

gradebook

student progress

student view

class view

Search Student

assignment grades

lesson progress

Faith Parker

Assignment Grades

Classroom

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Message Center ²

3rd grade

1st grade

add class

class roster

gradebook

student progress

student view

class view

Search Student

Faith Parker

Export to ...

Assignment	Due Date	Submission Status	Grade
Multiplication 0-10	Oct. 5	complete	need to redo
Using Adverbs	Oct. 6	complete	satisfactory
Plot the Points!	Oct. 15	in progress	—
If I Were a Colonist	Oct. 17	—	—
Long Division #2	Oct. 19	—	—
Leaf Scavenger Hunt	Oct. 23	—	—

Classroom

Lessons

Assignments

Agenda

Message Center

3rd grade

1st grade

add class

my lessons

create lesson

pre-made lessons

Pre-made Lessons

Search

Name, Subject, Standard

Popular Lessons

Spanish Lesson 1

Description

Math Lesson 1

Description

English Lesson 1

Description

Science Lesson 1

Description

Lessons by Subject

Spanish Lesson 2

Description

Math Lesson 2

Description

English Lesson 2

Description

Science Lesson 2

Description

Spanish Lesson 3

Description

Math Lesson 3

Description

English Lesson 3

Description

Science Lesson 3

Description

Classroom

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Agenda

Message Center

3rd grade

1st grade

add class

my lessons

create lesson

pre-made lessons

Art

English

Math

Science

Social Studies

Spanish

add subject

add folder

Short Stories

Compound Sentences

Conjunctions

"For Whom the Bell Tolls"

Classroom

Lessons

Assignments

Agenda

Message Center

3rd grade

1st grade

add class

my lessons

create lesson

pre-made lessons

Art

English

Math

Science

Social Studies

week

month

Student's Week of Oct. 12

edit

share

	Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16
7:00					
8:00				Art	
9:00					
10:00				Math	
11:00					
12:00		English		English	
1:00		Science		Science	
2:00					
3:00					
4:00					

Classroom

Lessons

Assignments

Agenda

Message Center

3rd grade

1st grade

add class

my lessons

create lesson

pre-made lessons

Create New Lesson

Lesson Name

Assign to Subject or Folder

Lesson Goals or Standards

Upload Files

Uploaded File List

save draft

save & post

iii

GamePlan screens- teacher



Classroom

Lessons

Assignments

Agenda

Message Center ²



3rd grade

1st grade

add class 

my assignments

create assignment

New Assignment

save draft 

Assignment Name

Assignment Type

Point Value

Assign to Subject or Folder

▼

Due Date & Time



Individual

☒

Collaborative

Generate review game before assignment?

☒

Generate review game after assignment?

☒

continue



Classroom

Lessons

Assignments

Agenda

Message Center ²



3rd grade

1st grade

add class 

my assignments

create assignment

Game Library

← back

🔍 Name, Subject, Standard

Popular

Conjunction Conundrum

preview game

add to assignment

Journey to the Center of Earth

preview game

add to assignment

Race across America

preview game

add to assignment

Astronomy Adventure

preview game

add to assignment

By Subject

Art

See all games ▼

English

See all games ▼

French

See all games ▼

Math

See all games ▼

Music

See all games ▼

Science

See all games ▼

Social Studies

See all games ▼

Spanish

See all games ▼



Classroom

Lessons

Assignments

Agenda

Message Center ²



3rd grade

1st grade

add class 

my assignments

create assignment

Art

English

Math

Science

Social Studies

Spanish

add subject 

add folder 



Classroom

Lessons

Assignments

Agenda

Message Center ²



3rd grade

1st grade

add class 

my assignments

create assignment

New Assignment Name

save draft 

> Subject Name , Folder Name

Upload Files



Upload Rubric



Castle Theme

▼

Choose from Game Library

MATH Test

Dungeons & Division

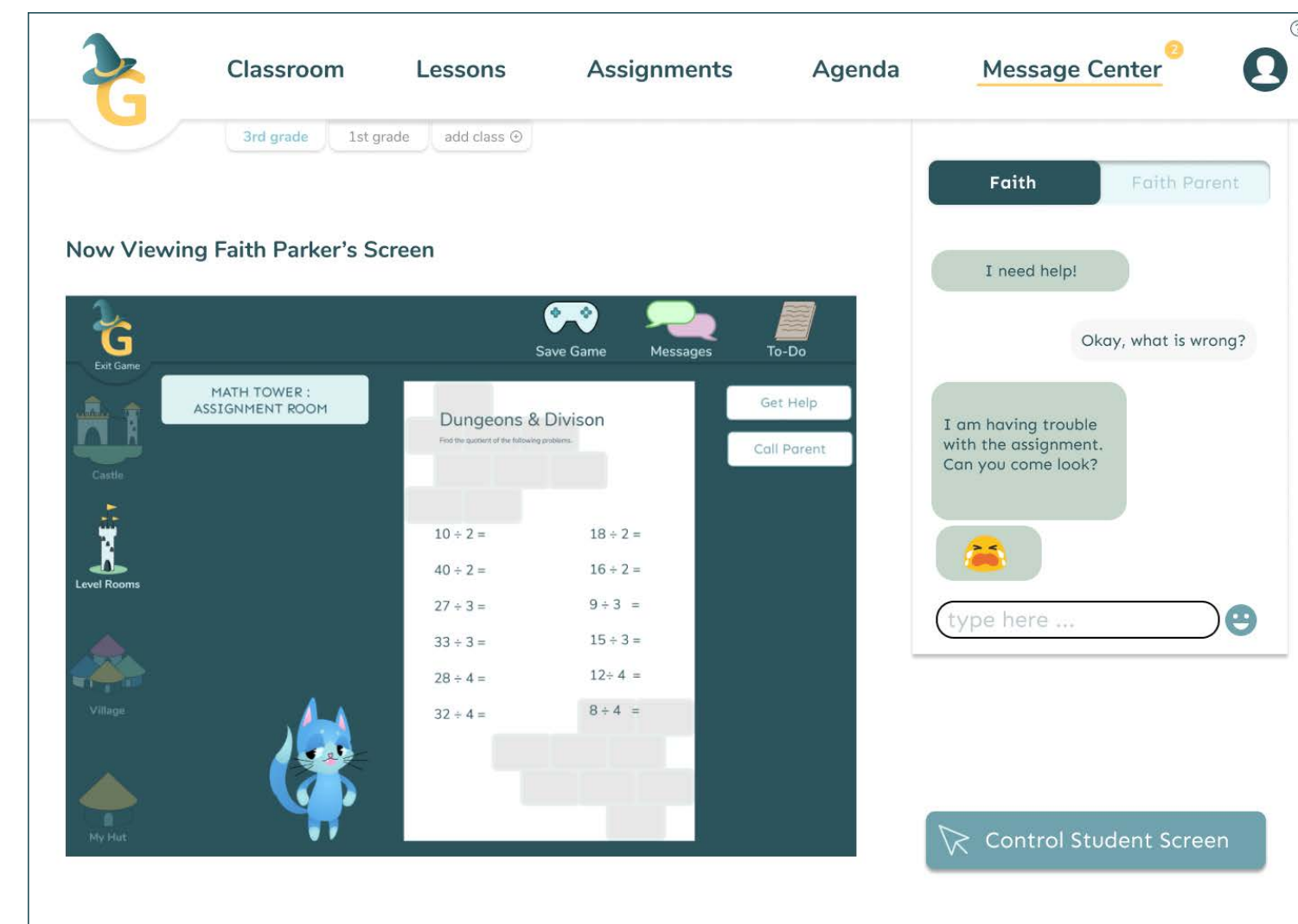
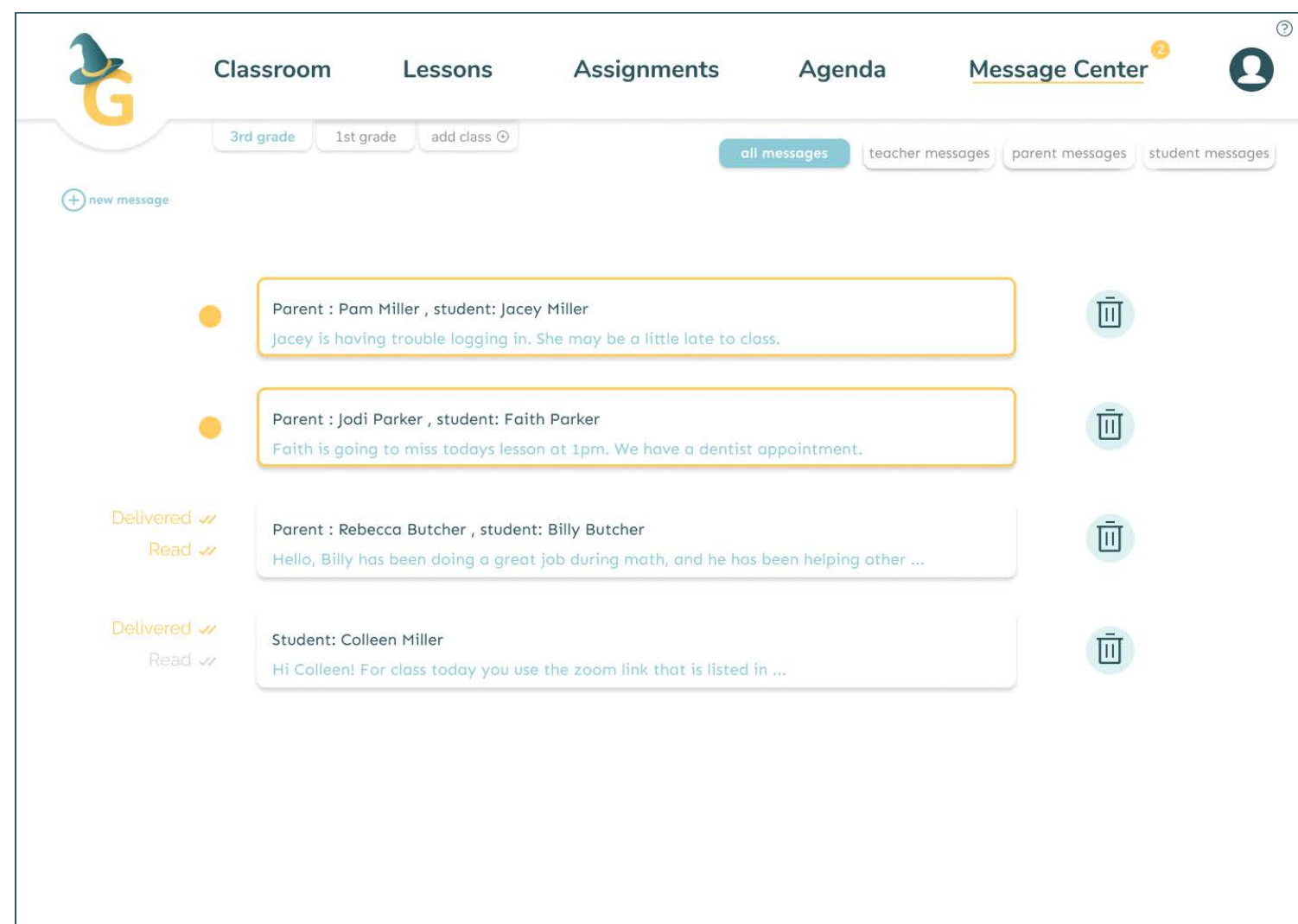
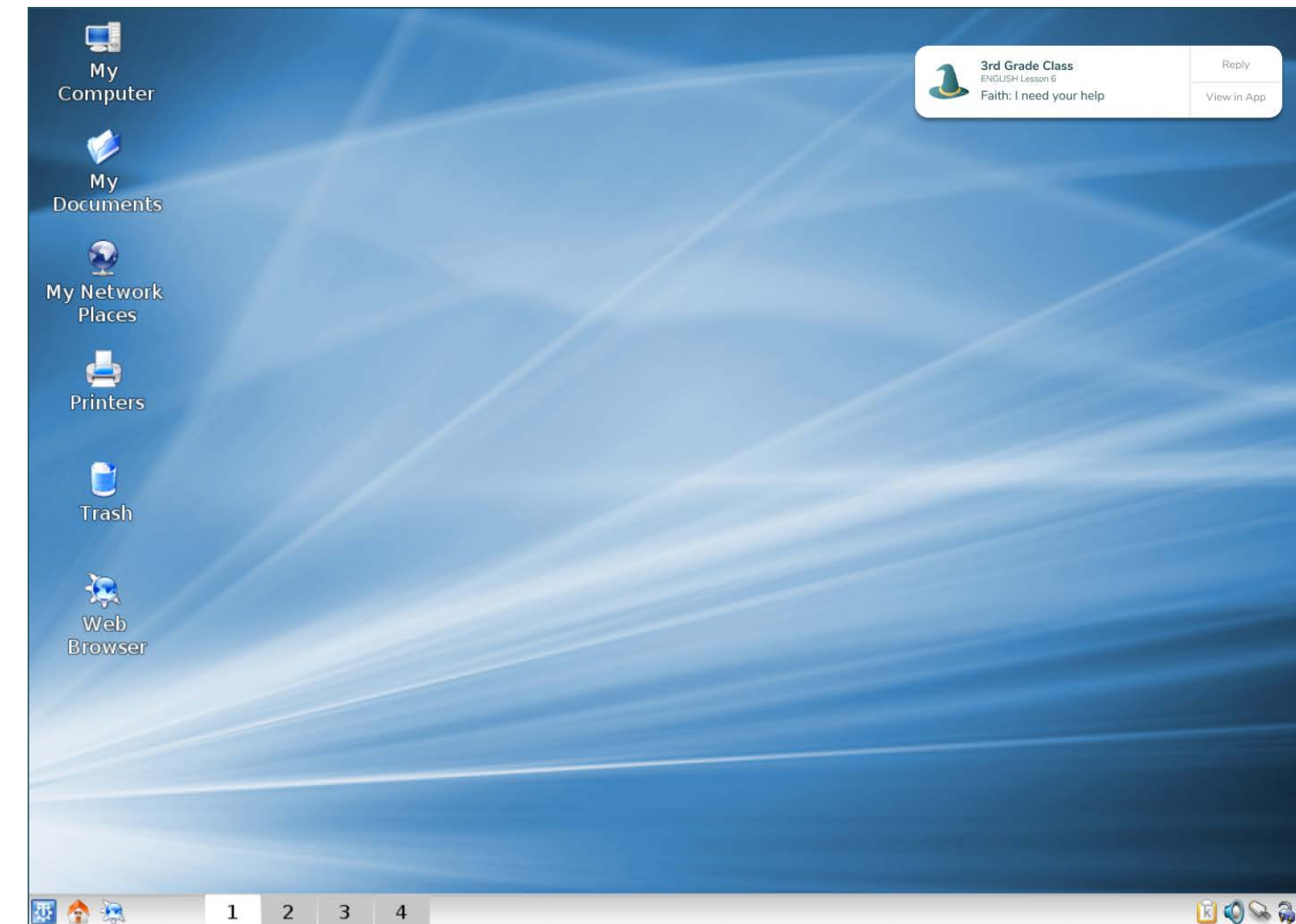
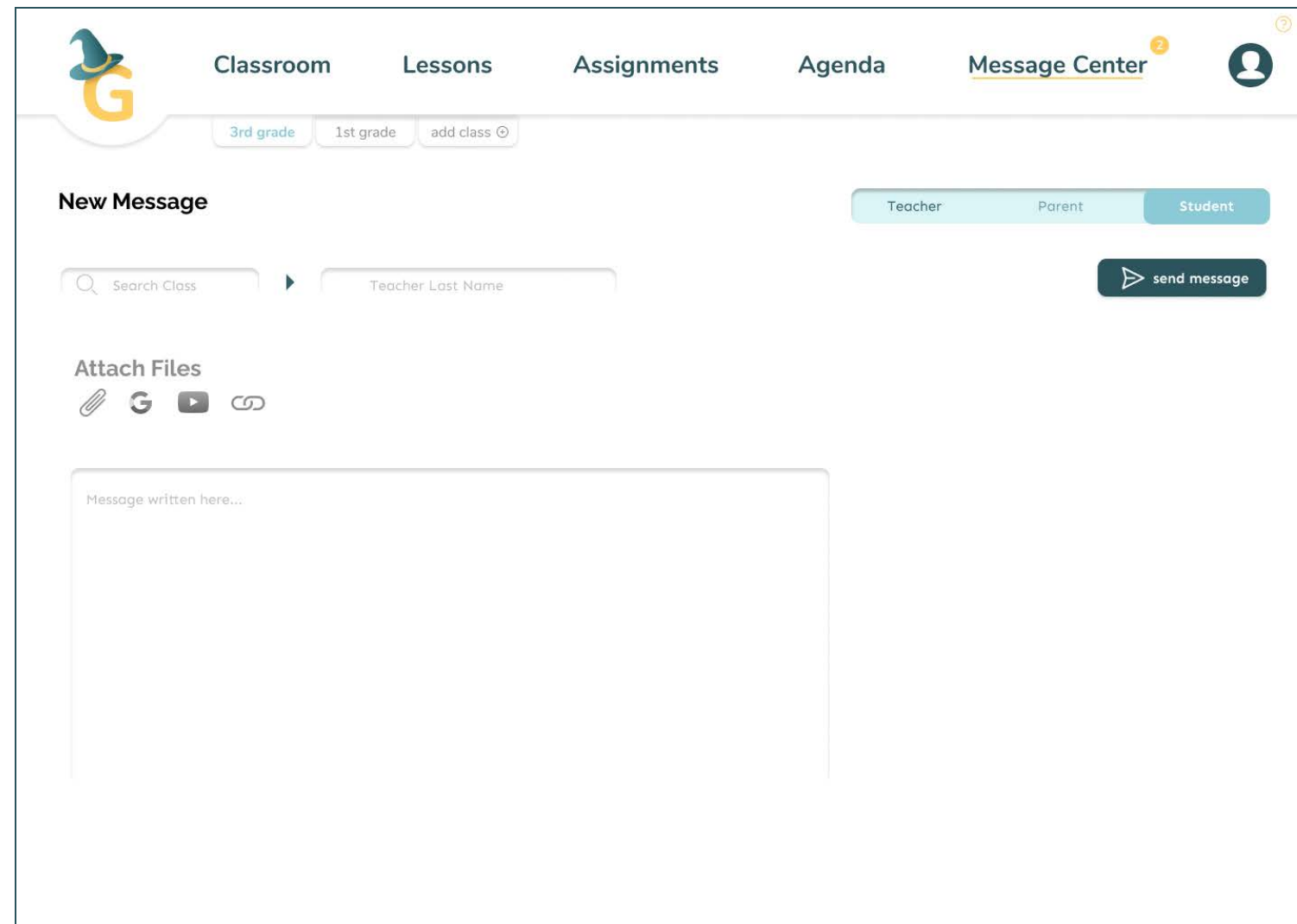
MATH Quiz 01

✓ Originality Report

save & assign 

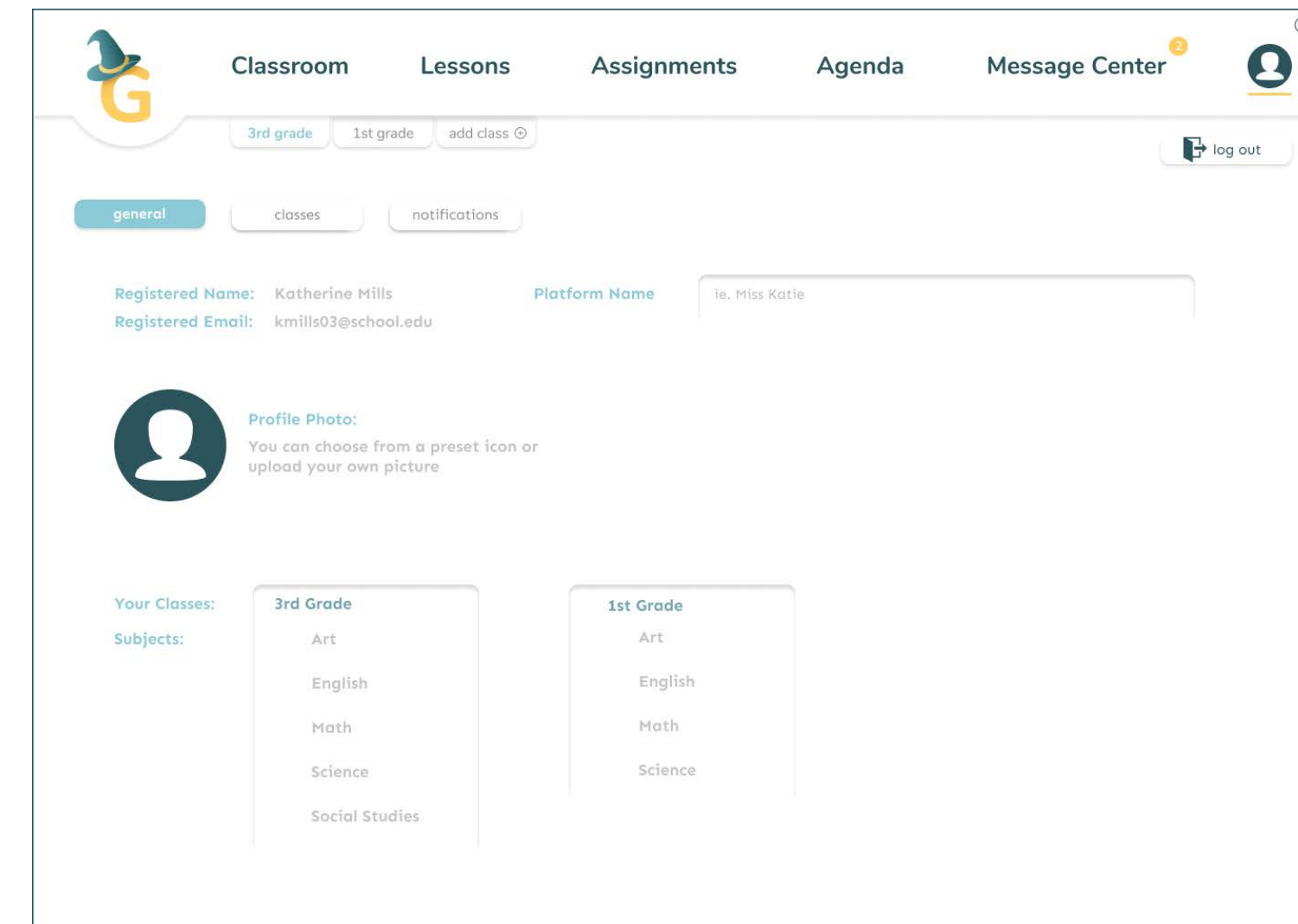
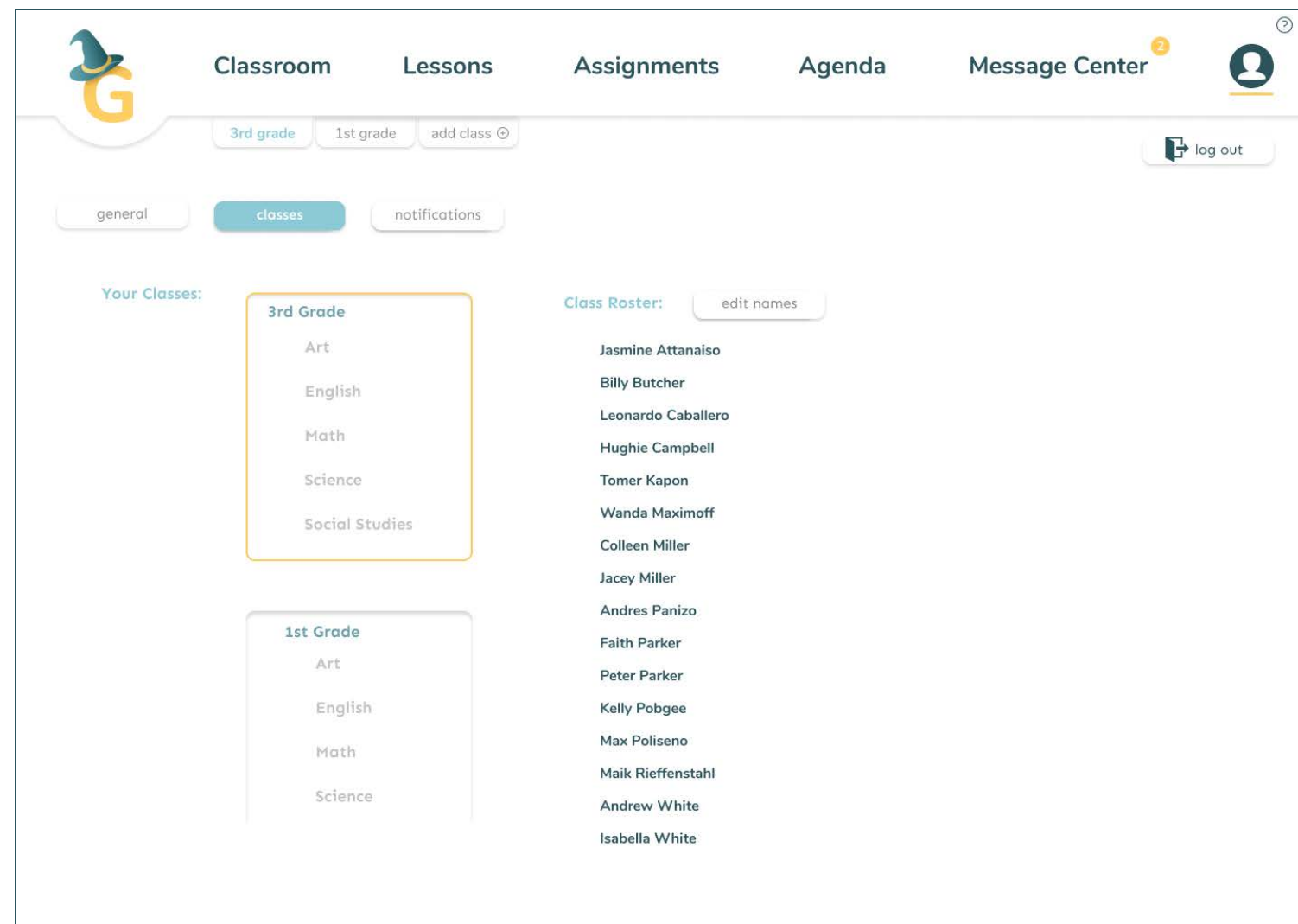
iv

GamePlan screens- teacher



v

GamePlan screens- teacher



vi | GamePlan screens- parent



LessonsAssignmentsAgendaStudent ProgressMessage Center

FaithPeteradd student

Art

Life of Picasso
Painting with Watercolor
Elements of Design
Introduction to Sculpture

English

Conjunctions
Introduction to Poetry
Metaphors
Writing Short Stories

Math

Multiplication
Long Division
Adding Fractions
Subtracting Fractions

Science

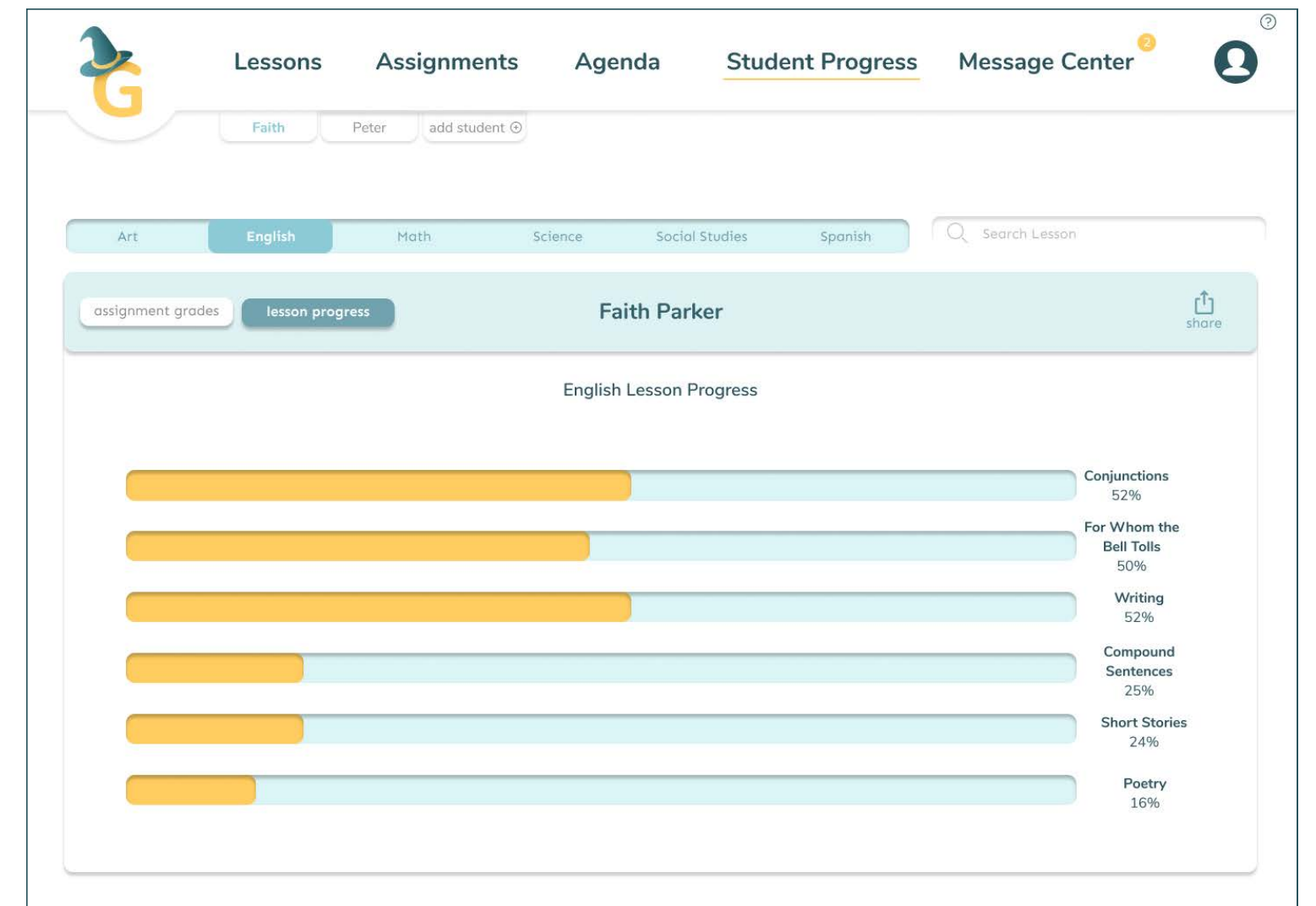
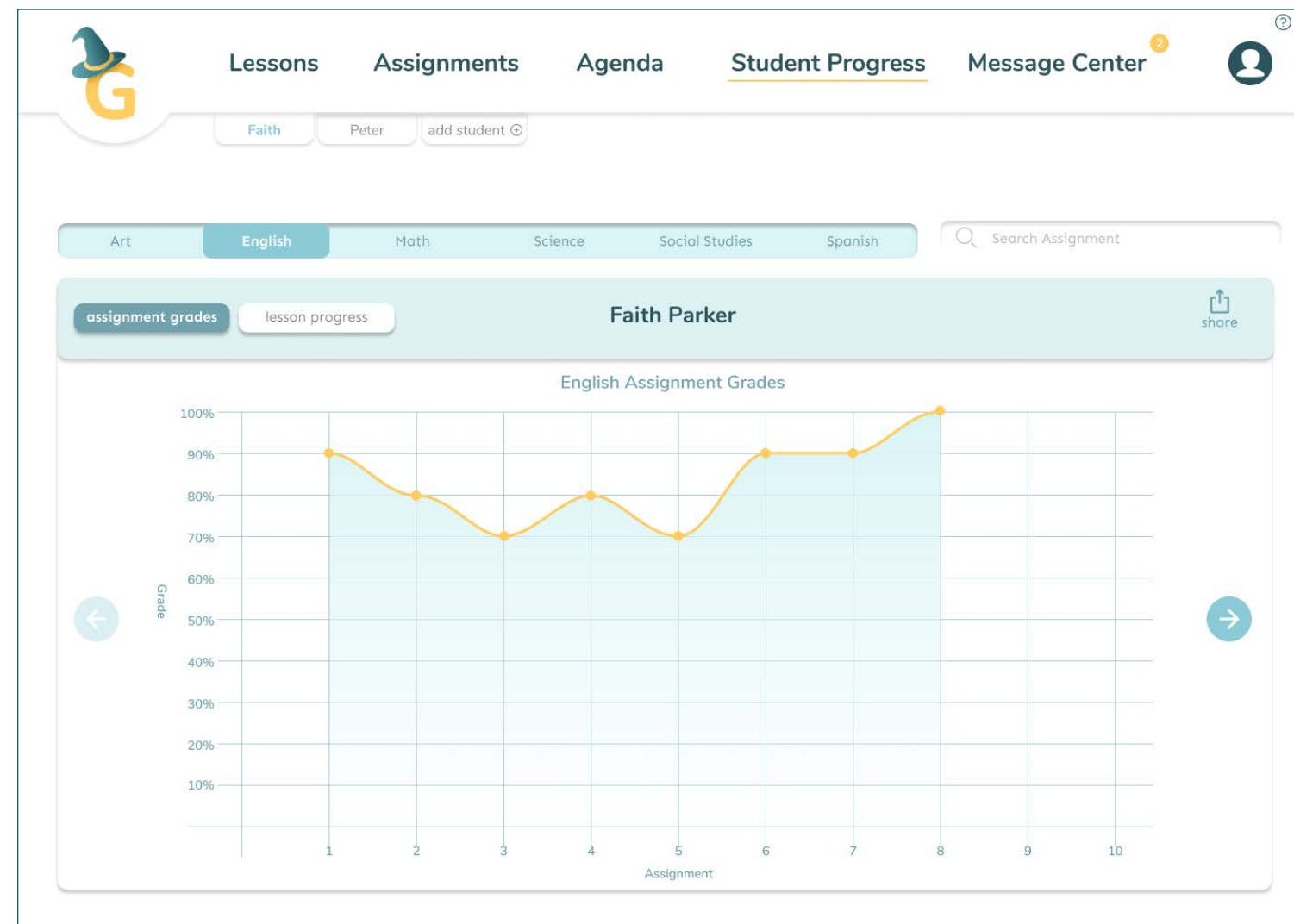
Life Cycle of a Frog
Classification of Animals
Introduction to the Periodic Table
Elements

Social Studies

Colonial America
The Constitution
Mothers of America
The Revolutionary War

Spanish

The Alphabet
Colors
Numbers
Introducing Yourself



Lessons

Assignments

Agenda

Student Progress

Message Center

Faith

Peter

add student

Teacher Feedback

Search

Assignment	Due Date	Submission Status	Grade	Parent Summary Sheet
Multiplication 0–10	Oct. 5	complete	need to redo	
Using Adverbs	Oct. 6	complete	satisfactory	
Plot the Points!	Oct. 15	in progress	—	
If I Were a Colonist	Oct. 17	—	—	
Long Division #2	Oct. 19	—	—	
Leaf Scavenger Hunt	Oct. 23	—	—	

Lessons

Assignments

Agenda

Student Progress

Message Center

Faith

Peter

add student

Teacher Feedback

Search

Assignment	Due Date	Submission Status	Grade	Parent Summary Sheet
Multiplication 1–10	Oct. 5	complete	need to redo	
Hi Faith! Great effort on this assignment. I can certainly tell you have been practicing your times tables. It looks like you need to practice a little bit more on multiplying by 5's though. Remember, your answer should always end in a 0 or 5. Why don't you go back and take a look at your answers again with this in mind. You can send it back to me when you've had a chance to redo it!				
Using Adverbs	Oct. 6	complete	satisfactory	
If I Were a Colonist	Oct. 15	in progress	—	
Long Division #2	Oct. 17	—	—	

Lessons

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add student

Teacher Feedback

Search

Assignment	Due Date	Submission Status	Grade	Parent Summary Sheet
Multiplication 1–10	Oct. 5	complete	need to redo	

$5 \times 4 = 20$

$5 + 5 + 5 + 5 = 20$

step 01

Relate the problem to addition. Think: 5×4 is the same thing as saying $5 + 5 + 5 + 5 = 20$

step 02

If your student is still confused try drawing a picture or using objects to illustrate the point



LessonsAssignmentsAgendaStudent ProgressMessage Center

FaithPeteradd student

notify teacher

Appointment

Leaving Early

Coming Late

notify student

Appointment

Practice

After School Activity

weekmonth

Student's Week of Oct. 12

editshare

	Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16
7:00					
8:00				Art	
9:00					
10:00				Math Multiplication	
11:00					
12:00		English		English	
1:00		Science		Science	
2:00					
3:00					
4:00					



LessonsAssignmentsAgendaStudent ProgressMessage Center

FaithPeteradd student

Notify Teacher

Appointment

Leaving Early

Coming Late

Notify Student

Appointment

Practice

After School Activity

weekmonth

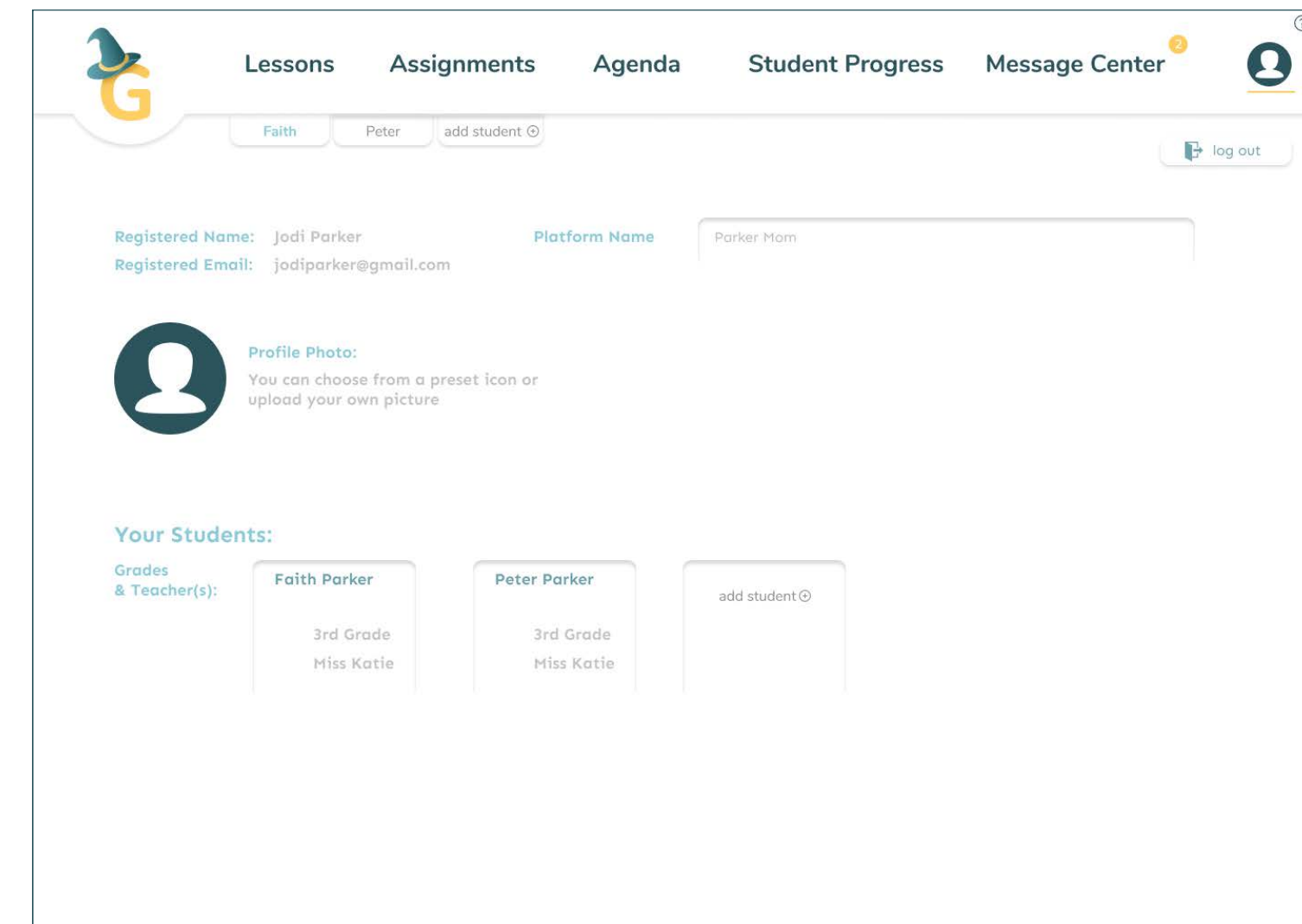
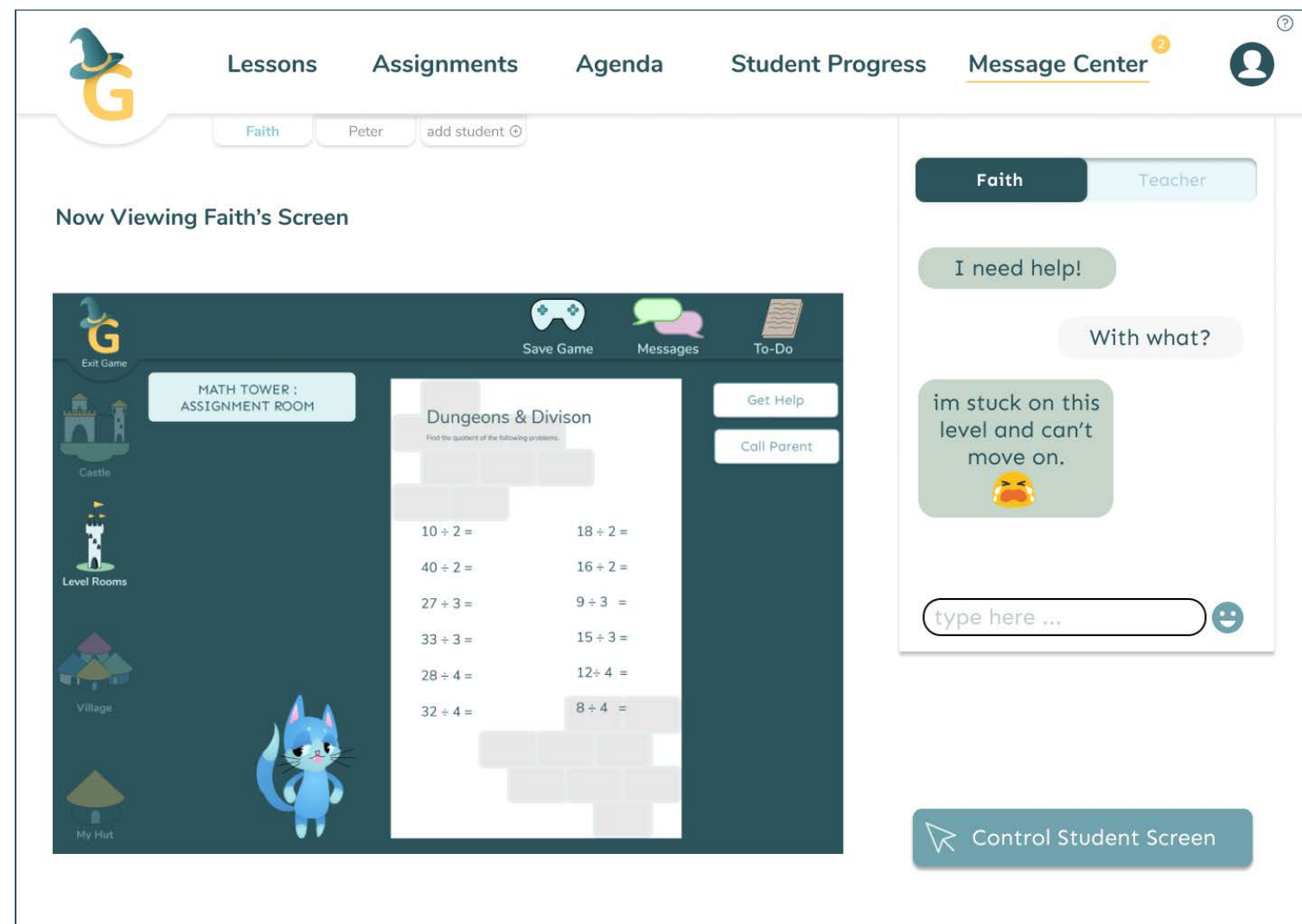
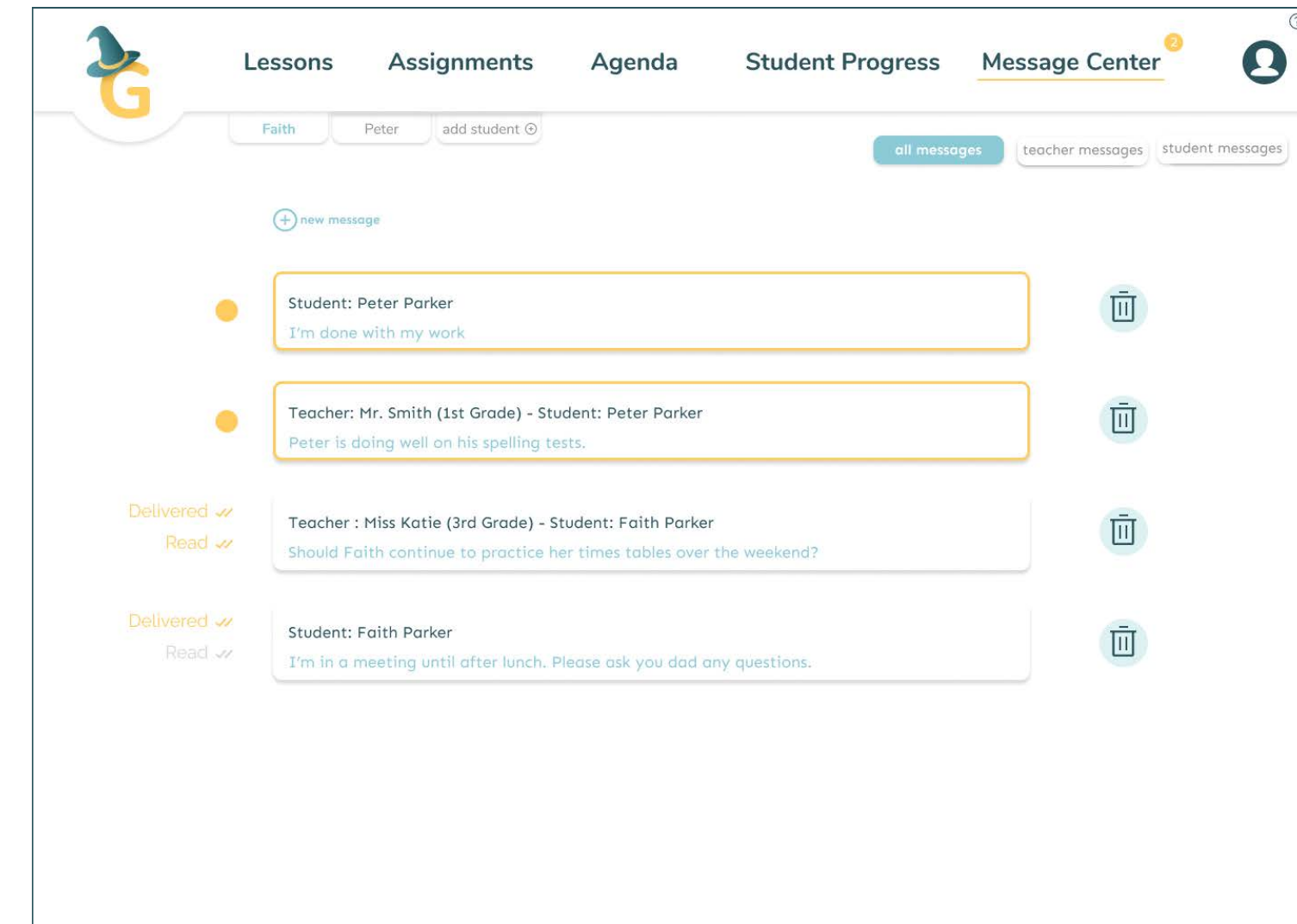
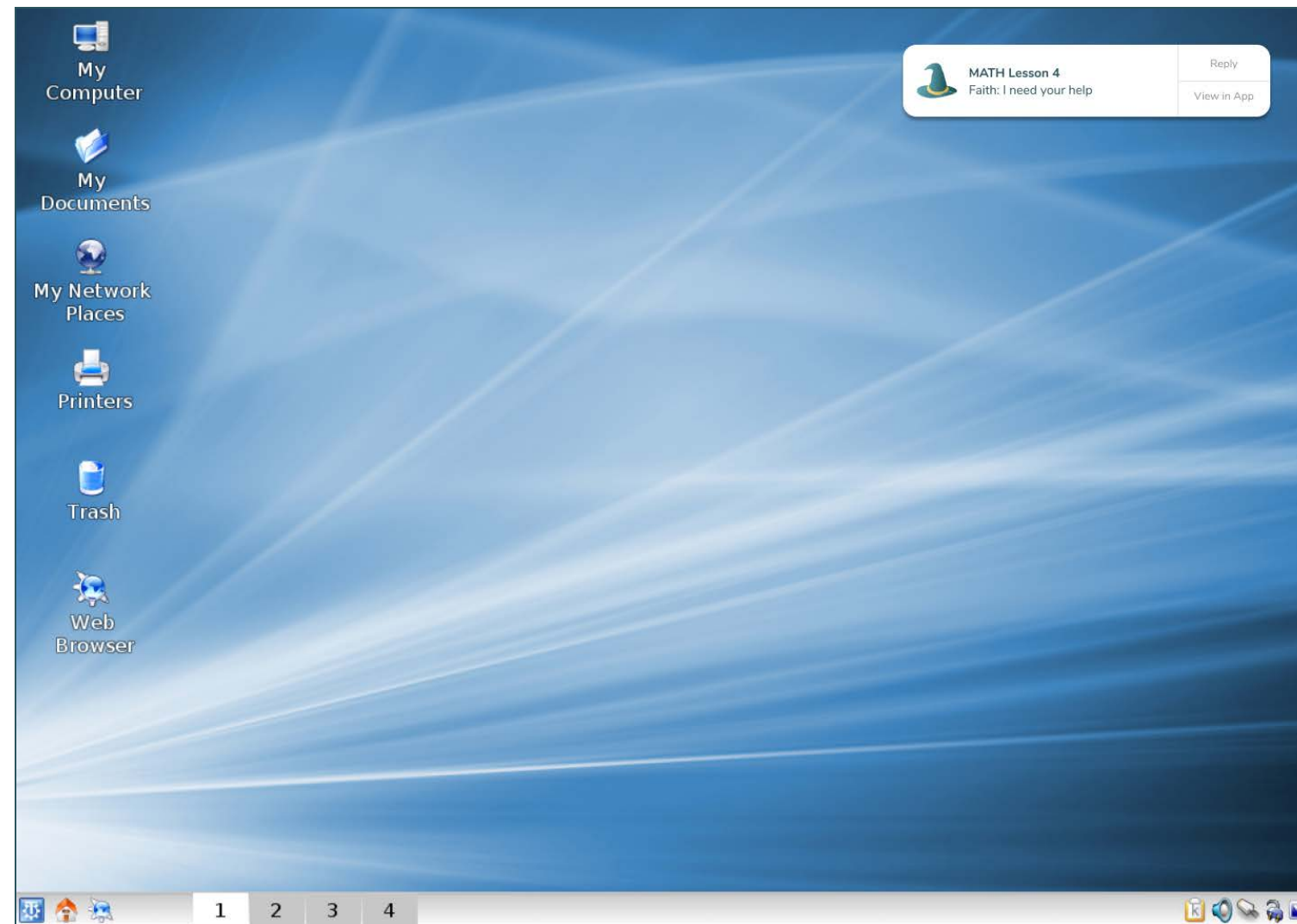
Student's Week of Oct. 12

editshare

	Mon. 12	Tues. 13	Wed. 14	Thurs. 15	Fri. 16
7:00					
8:00				Art	
9:00					
10:00				Math Multiplication	
11:00				! Appointment	
12:00		English		English	
1:00		Science		Science	
2:00					
3:00					
4:00					

ix

GamePlan screens- parent





GamePlan screens- students



Enter Game



Lessons



Homework



Message Center



Faith Parker

3rd Grade | Miss Katie's Homeroom

OCTOBER 2020

Today's Schedule:



Enter Game



Lessons



Homework



Message Center



Faith Parker

3rd Grade | Miss Katie's Homeroom

UpcomingPast

Name, Assignment, Date Search



Enter Game



Lessons



Homework



Message Center



Faith Parker

3rd Grade | Miss Katie's Homeroom

Call ParentCall Teacher

New Message

Student: Jacey Miller
Hey !!!!! :)

Teacher: Miss Day
Please let me know if you have any more internet issues.

Parent : Parker Mom
You have to go to the dentist today.



Enter Game



Lessons



Homework



Message Center



Character

3rd Grade | Miss Katie's Homeroom

UpcomingPast

Name, Assignment, Date Search

View homework submission

Homework Directions

Grade: Needs Correction

Re-Submit

Message Teacher about assignment

Teacher Comments
You are making good progress on MATH: Homework 01. It looks like you missed the directions on the second section so let's redo that part to show you understand.



Enter Game



Lessons



Homework



Message Center



Faith Parker

3rd Grade | Miss Katie's Homeroom

Game XP
170038

Game Coins
500,000

My Lesson Progress

Character Outfits

Art 95%

Math 90%

English 70%

Science 50%

History 30%