

# **IEP-Connect**



*Supporting students with special needs by tracking  
educational goals and simplifying communication  
between parents and teachers*

# The Team

Lane  
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*Interface Maverick*

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*Seal of Approval Stamper*

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*Mockup Maven*

# The Problem

In Seattle Public Schools only 50 percent of students with disabilities graduate from high school, compared with 75 percent of students without disabilities.



# Initial Prototypes

# Tasks

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## Classroom

***Look-up*** individual student's accommodations.

***Track*** goal progress and accommodation usage.

## Parent View

***Learn*** about goal progress.

***Communicate*** with the IEP team.

# IEP-Connect Classroom

Look-up Accommodations, Track Progress

All Accommodations		
JD	KF	AG
LH	LI	JJ

All Accommodations		
Calculator	JD	KF
Extra Time	JD	AG
Graphic Organizer	LI	
Seating	LH	

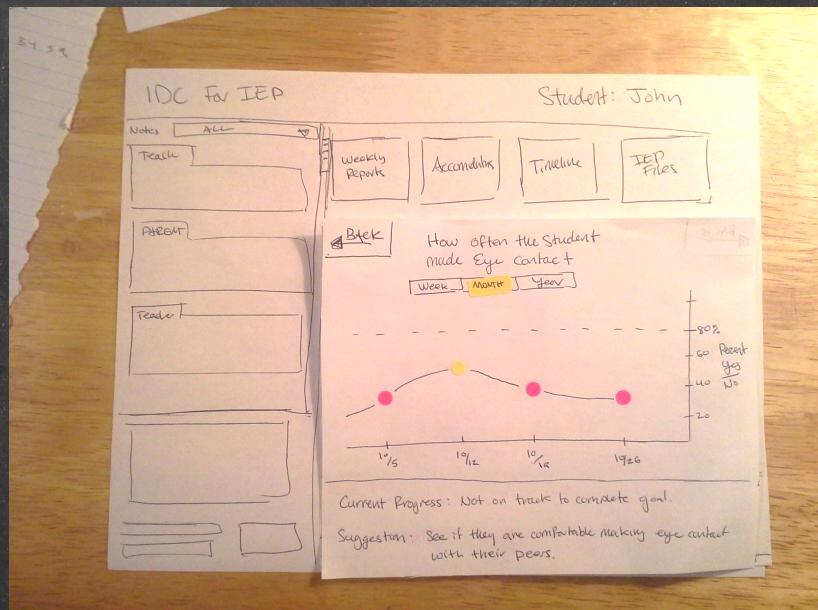
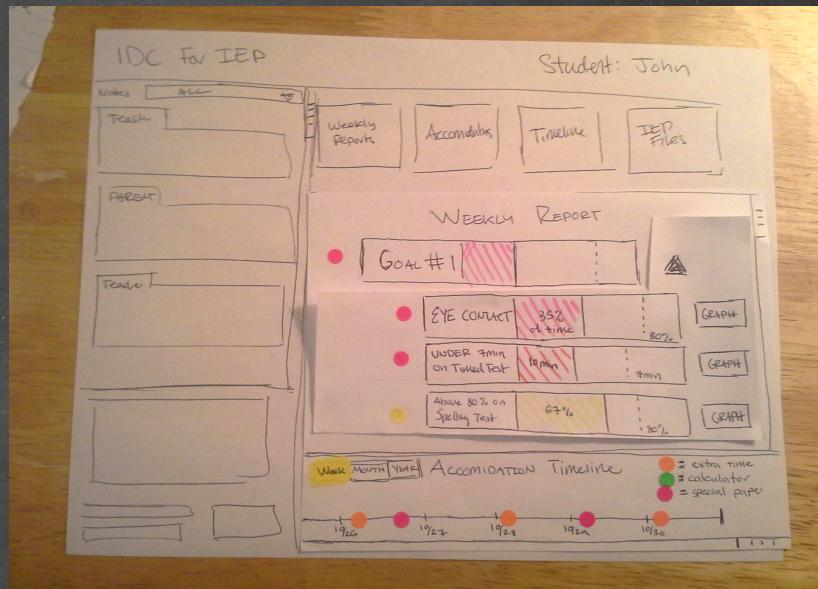
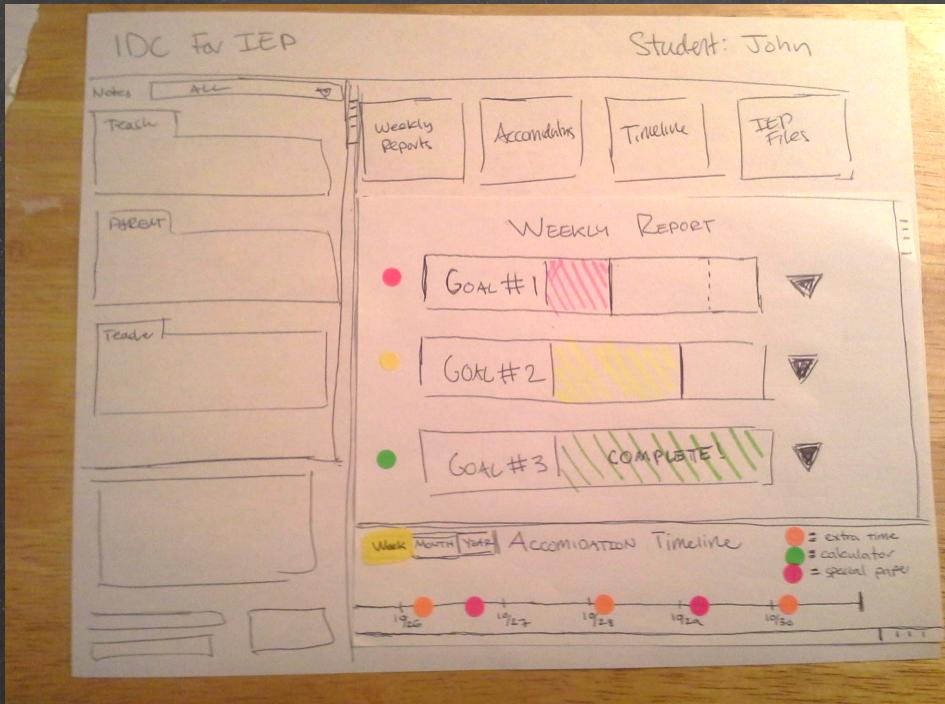
JD > Goals   Accommodations		
Made Eye Contact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Raised Hand	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tied Shoe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Used Appropriate Volume	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Used Proper Greeting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

KF > Goals   Accommodation		
Paragraph under 7m	<input type="checkbox"/>	*
Read 20 wpm	<input type="checkbox"/>	*
Type 10 wpm	<input type="checkbox"/>	*

KF > Goals   Accommodation		
Paragraph under 7m	<input type="checkbox"/>	*
		0
C	.	/
0	1	2
4	5	6
8	9	3
		7
		Submit

# IEP-Connect Parent View

## Learning About Goal Progress



# IEP-Connect Parent View

*Communicate with IEP Team*

Notes All

Teacher 8:32 am Tuesday 11/4/2014

Parent 4:15 pm Monday 11/3/2014

Teacher 7:30 am Tuesday 10/28/2014

Subject:  
Note:

Notify POST

Tag

Notes All

Teacher 8:32 am Tuesday 11/4/2014

Parent 4:15 pm Monday 11/3/2014

Teacher 7:30 am Tuesday 10/28/2014

All IEP Team  
IEP Teacher  
Instructional Assistant  
LA Teacher  
Math Teacher  
Principal  
School Psychologist

Notify POST

Tag

Notes All

Teacher 8:32 am Tuesday 11/4/2014

Parent 4:15 pm Monday 11/3/2014

Teacher 7:30 am Tuesday 10/28/2014

Goals 1  
Goals 2  
Goals 3  
Goals 4  
Goals 5  
Goals 6

Tag Categories  
Goals  
Tasks  
Accomodations  
Behaviors  
IEP Meetings  
Subject

Notify POST

Tag

# Testing Process/Results

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# Testing Process

## Test Procedure

- Facilitator
  - Note Taker
  - Interface Changer
- 
- Ask to perform tasks
  - Prompt with questions
  - Exit interview

## Participants



Two Parents

Three Dream  
Project  
Members

One  
Undergrad  
Acquaintance

# Testing Results

## IEP-Connect Classroom

- Clarity needed with data entry and removal
- Difficulty reversing state
- Concern over new device in classroom

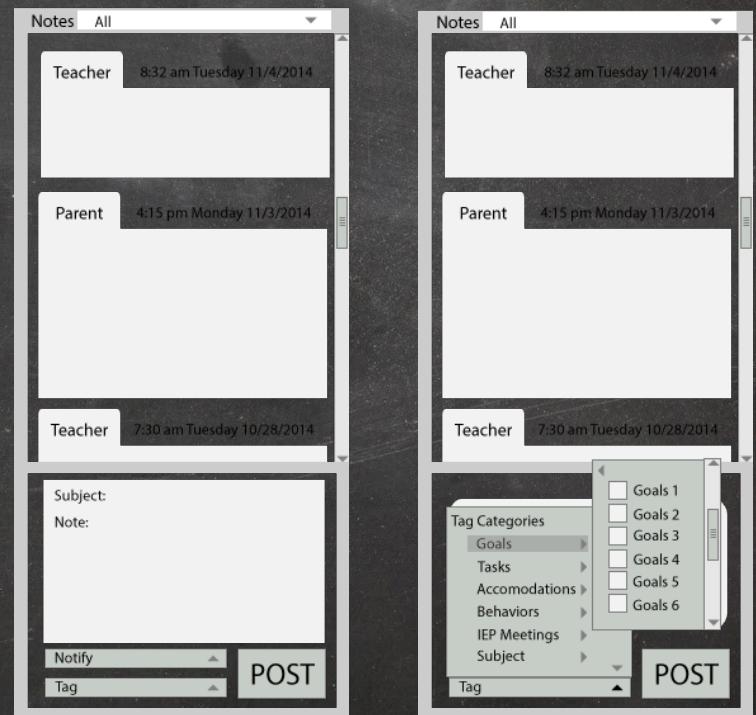
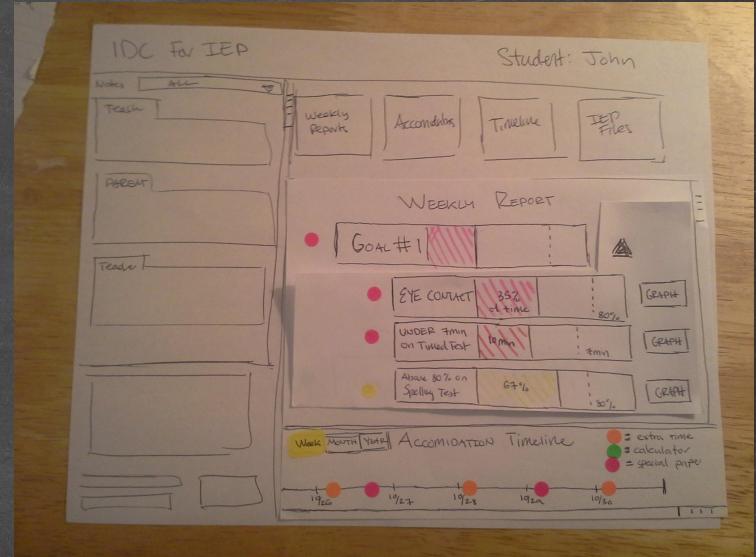
KF Goals		Accommodations	
Paragraph under 7m		0	0
C	.	1	%
0	1	2	3
4	5	6	7
8	9	Submit	

All Accommodations		
Calculator	JD	KF
Extra Time	JD	AG
Graphic Organizer	LI	
Seating	LH	

# Testing Results

## IEP-Connect Parent View

- Increased functionality
- Fine-tuning navigation
- Meaningful/concise data presentation



# Final Paper Prototype

# Final Paper Prototype

## IEP-Connect Classroom

K.F. > Goals | Accommodations | ⌂

All Students > K.F.

In Progress

Write Paragraph Under 7m [Enter] ⚡

Make Eye Contact ⚡ ⓘ ⚡

IEP Goal: Student will maintain eye contact appropriately during conversation ✘

• •

K.F. > Goals | Accommodations | ⌂

All Students > K.F.

In Progress

Write Paragraph Under 7m [Enter] ⚡

C	.	/	%
0	1	2	3
4	5	6	7
8	9	Enter	

K.F. > Goals | Accommodations | ⌂

All Students > K.F.

Previously Tracked

Write Paragraph [8] m [Remove]

Score on Math Test [75] % [Remove]

• •

K.F. > Goals | Accommodations | ⌂

All Students > K.F.

Previously Tracked

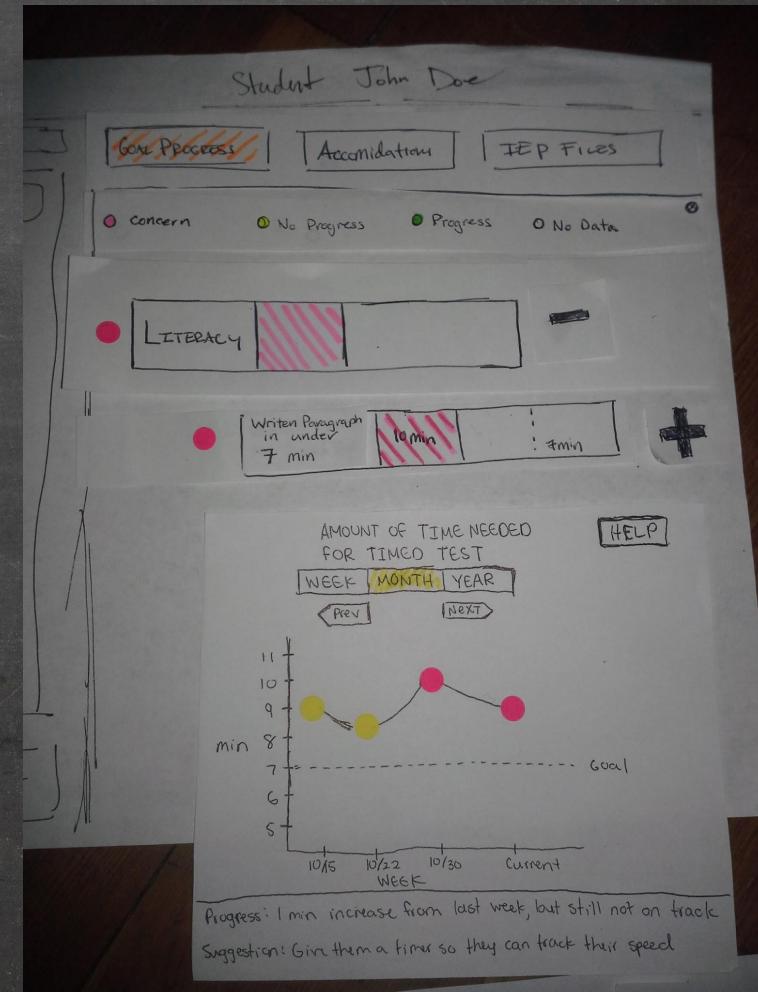
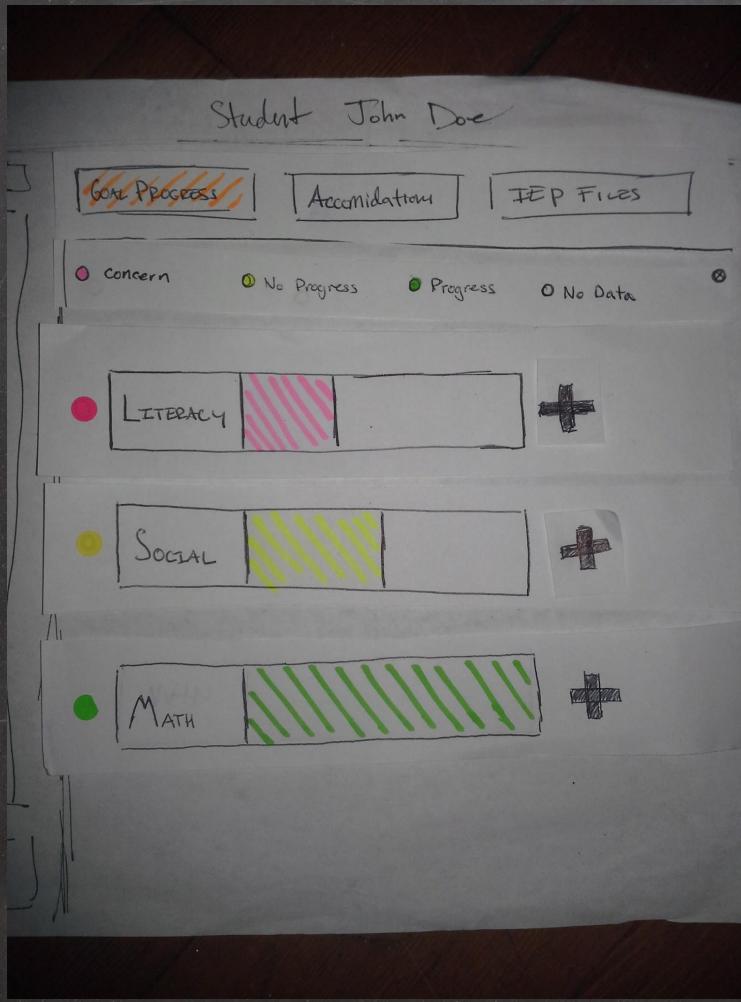
[Cancel] [Confirm]

Score on Math Test [75] % [Remove]

• •

# Final Paper Prototype

## IEP-Connect Parent View



# Final Paper Prototype

## IEP-Connect Parent View

Notes All

**NEW NOTE**

Conversation	Date
Addition Test Results by Mrs. Green	11/10/14
Calculators on test by Mrs. Green	11/03/14
Writing Homework by Mr. Brown	10/29/14
Upcoming IEP Mtg. by Mrs. Green	10/29/14
Home Sick Today by Parent	10/28/14
Classroom visit by Mr. Black	10/25/14
Extra time HW1 by Parent	10/20/14
Psychological Eval by Mrs. Thompson	10/15/14
Eye Contact update by Mrs. Green	10/09/14
IEP goals reviewed	9/02/14

Notes All

From: Parent  
Subject:

To : Cc :

Tag ▲

- All IEP Team
- IEP Teacher
- Instructional Assistant
- LA Teacher
- Math Teacher
- Principal
- School Psychologist

**POST CANCEL**

Notes All

From: Parent  
Subject: Literacy Goal Concern

To : IEP Teacher X Cc :

Tag ▲ Literacy X 7 min ... X

Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident,

**POST CANCEL**

# Digital Mockup

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# Digital Mockup

## IEP-Connect Classroom

All Accommodations				
 Previous All Students				
Stacy Atkinson	John Burton	John Doe	Nancy Ejram	
Kasey Ernst	Laura Freidman	Ida Hall	Sylvia Lane	
Bryce Lu	Jerome Owens	Tracy Rutgers	Tia Thomas	
Claudia Valdez	Alonso Vida	Gena Waters	Eileen Wilson	

All Accommodations					
 Previous All Students					
Calculator	John Burton	John Doe	Tracy Rutgers	Claudia Valdez	
Computer	Stacy Atkinson	Kasey Ernst	Nancy Ejram	Ida Hall	
Extra Desk	Stacy Atkinson	Bryce Lu	Sylvia Lane	Alonso Vida	
Extra Time	John Doe	Ida Hall	Tia Thomas	Gena Waters	
Preferential Seating		Laura Freidman	Jerome Owens	Eileen Wilson	

John Doe

Goals      Accommodations



 Previous      Track Accommodations

 Swipe right to submit

Calculator	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Extra Time	<input type="radio"/> Yes	<input checked="" type="radio"/> No

1

# Digital Mockup

IEP-Connect Classroom

John Doe

Goals      Accommodations      

< Previous      Track      Next >

Swipe right to submit

Write Paragraph under 7 minutes  min

Made Eye Contact  Yes  No

Score 80% on addition test  %

● ● ●

John Doe

Goals      Accommodations      

< Previous      Track      Next >

Swipe right to submit

Write Paragraph under 7 minutes  min

1	2	3
4	5	6
7	8	9
0	Accommodations Used	
	<input type="checkbox"/> Calculator	<input type="checkbox"/> Extra Time
	<input type="checkbox"/> Computer	<input type="checkbox"/> Preferential Seating
	<input type="checkbox"/> Extra Desk	

Enter

1

# Digital Mockup

*IEP-Connect Classroom*

John Doe

Goals      Accommodations      

 Previous      Track

 Swipe right to submit

Write Paragraph under 7 minutes  8 min

Made Eye Contact       Yes       No

Score 80% on addition test  %

John Doe

Goals      Accommodations      

Recorded History

Most Recent

11/11/2014 10:23 PM  
Write Paragraph under 7 minutes  8 min 

11/11/2014 09:19 PM  
Made Eye Contact  Yes 

11/11/2014 07:14 PM  
Score 80% on addition test  75 % 

# Digital Mockup

## IEP-Connect Parent View

A Web Page

http://

IEP-Connect  
Individual Education Tracking for IEPs

Student: John Doe

Settings | Logout

Conversations All search Create a New Conversation

Goal Progress Accommodations Timeline IEP Files

Concern No Progress Progress No Data

1

Literacy 34% Social 58% Math 90%

Help

Conversation DATE

Field Trip Permission slip 11/14/2014 by Parent

Addition Test Results 11/03/2014 by Mrs. Green

Calculators on Test 10/30/2014 by Mrs. Green

Writing Homework 10/29/2014 by Mr. Brown

Upcoming IEP Meeting 10/29/2014 by Mrs. Green

Home Sick Today 10/28/2014 by Parent

Classroom Visit 10/28/2014 by Mr. Black

Extra Time on HW1 10/25/2014 by Parent

Psychological Evaluation 10/20/2014 by Mrs. Thompson

Incentive Program 10/15/2014 by Parent

Graphic Organizer for Pers... 10/10/2014 by Mr. Brown

A Web Page

http://

IEP-Connect  
Individual Education Tracking for IEPs

Student: John Doe

Settings | Logout

Conversations All search Create a New Conversation

Goal Progress Accommodations Timeline IEP Files

Concern No Progress Progress No Data

2

Literacy 34%

Goal: Write a paragraph in under 7 minutes Info

Current Assessment: 12 min Previous Assessment: 8 min Previous Month Avg: 8 min

Help

Conversation DATE

Writing Homework 10/29/2014 by Mr. Brown

Graphic Organizer for Pers... 10/10/2014 by Mr. Brown

Amount of Time Needed to Write a Paragraph

Minutes

Month 3 Months Year

Current

Goal

Date (Day-Month)

Concern: John has recently taken a lot more time to write a paragraph  
Suggestions: Talk to the teacher to see why they think this is happening

Create New Conversation

# Digital Mockup

## IEP-Connect Parent View

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A Web Page

http://

IEP-Connect  
Individual Education Tracking for IEPs

Conversations All search

Create a New Conversation

Conversation DATE

Writing Homework 10/29/2014 by Mr. Brown

Graphic Organizer for Pers... 10/10/2014 by Mr. Brown

Student: John Doe

Goal Progress Accommodations Timeline

Concern No Progress Progress

Literacy 34% !

Goal: Write a paragraph in under 7 minutes Info

Current Assessment: 12 min Previous Assessment: 8 min Previous Month Avg: 8 min

Amount of Time Needed to Write a Paragraph

Minutes

Score: 12 minutes Teacher: Mrs. Green Date: 30 - Oct - 2014 Time of entry: 2:15 pm Accommodations: Special Paper, Timer

Concern: John has recently taken a lot more time to write a paragraph Suggestions: Talk to the teacher to see why they think this is happening

Create New Conversation

A Web Page

http://

IEP-Connect  
Individual Education Tracking for IEPs

Conversations All search

Create a New Conversation

To: Mrs. Green Cc: Subject: Literacy Goal Concern Tags: Literacy 7 min

B I u ab style: Post Draft Cancel

Student: John Doe

Goal Progress Accommodations Timeline IEP Files

Concern No Progress Progress No Data

Literacy 34% !

Goal: Write a paragraph in under 7 minutes Info

Current Assessment: 12 min Previous Assessment: 8 min Previous Month Avg: 8 min

Amount of Time Needed to Write a Paragraph

Minutes

Score: 12 minutes Teacher: Mrs. Green Date: 30 - Oct - 2014 Time of entry: 2:15 pm Accommodations: Special Paper, Timer

Concern: John has recently taken a lot more time to write a paragraph Suggestions: Talk to the teacher to see why they think this is happening

Create New Conversation

# Digital Mockup

## IEP-Connect Parent View

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A Web Page

The screenshot shows the IEP-Connect Parent View interface. At the top, it displays "Student: John Doe". Below this are four tabs: "Goal Progress" (selected), "Accommodations", "Timeline", and "IEP Files". A sidebar on the left contains fields for "To:", "Cc:", "Subject:", and "Tags", along with a rich text editor toolbar and buttons for "Post", "Draft", and "Cancel". In the center, there are three progress bars: Literacy (34%, orange bar), Social (58%, grey bar), and Math (90%, orange bar). A modal window titled "Concern" is open, showing the same three categories with their respective progress levels. The "Help" button is visible in the top right of the modal.

A Web Page

This screenshot shows the same IEP-Connect Parent View interface as the previous one, but with updated progress data. The "Goal Progress" tab is still selected. The central progress bars now show: Literacy (34%, orange bar with a warning icon), Social (58%, grey bar with a purple circle icon), and Math (90%, orange bar with a star icon). A new modal window titled "Concern" is open, showing the updated progress levels. The sidebar on the left remains the same, displaying the "Goals" section with categories: Literacy, Social, Math, Accommodations, and IEP Meeting. A "Back" button is at the bottom of the sidebar.

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# Final Thoughts

# Summary

- Participant recruiting
- Bridging the paper/digital divide
- Knowing when to stop

# Thank you!