

## Or swimming in insights?





#### How edtech can give teachers more actionable insights

Studycat Young Learners' Summit, August 27, 2020

## Or swimming in insights?



Drowning in data, or swimming in insights? How edtech must evolve to give you more actionable insights

Dr. Adam Black Founder, enablinginsights







# Or swimming in insights?



## How actionable are student data in current dashboards?



## How "actionable" are these student data?

Name	Score (Correct/Possible)	%	Times Taken
🖯 Unit 1 - A			
Unit 1 / Lesson A / Vocabulary	7.00 / 10.00	70.00 %	1
Unit 1 / Lesson A / Listening	5.00 / 10.00	50.00 %	1
Unit 1 / Lesson A / Language Function	5.00 / 10.00	50.00 %	1
Unit 1 / Lesson A / Grammar	6.00 / 10.00	60.00 %	1
Unit 1 / Lesson A / Pronunciation	not taken	0.00 %	0
Unit 1 / Lesson A / Speaking	not taken	0.00 %	0
🖯 Unit 2 - A			
Unit 2 / Lesson A / Listening	6.00 / 10.00	60.00 %	1
Unit 2 / Lesson A / Speaking	27.00 / 30.00	90.00 %	1
Unit 2 / Lesson A / Pronunciation	25.00 / 30.00	83.33 %	1
Unit 2 / Lesson A / Grammar	not taken	0.00 %	0
Unit 2 / Lesson A / Language Function	not taken	0.00 %	0
Unit 2 / Lesson A / Vocabulary	not taken	0.00 %	0



## How "actionable" are these student data?

Student	Play	Gramma		Play	y: Vocab	oulary		Read			Listen		A	/erage	
	٠	0	0		0	0	٠	0	0	2	0	0	٠	0	0
Alvarez, Miguel	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%
Aria, Frida	ż	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%
Azoulay, Muhammad	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%
Barrios, María	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%
Benzali, Juliana	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%	2	45%	56%
Class average	2	45%	56%	2	45%	56%	2	45%	55%	2	45%	56%	2	45%	56%
Number of tries	nt try	List by	8	Add	student	XD	elete se	lected s	tudent(s	;)			Print	-	Export



## How "actionable" are these student data?

<u>Title</u> 🗇	Score 💠	<u>Grade</u> 💠	<u>Completed</u>
Welcome to Your Course			0/0
Unit 1 Exploring Genius	35%	D	4/10
Unit 2 The Achilles Heel	100%	A	2/2
Unit 3 Early to Bed, Early to Rise	0%	F	0/11
Unit 4 Animal Intelligence			0/0
Unit 5 The Golden Years	69%	В	18/21
Unit 6 Giving to Others			0/0
Unit 7 Do Your Homework!			0/0
Unit 8 Pros and Cons of Gaming			0/0



## How can we make student data more actionable to teachers?



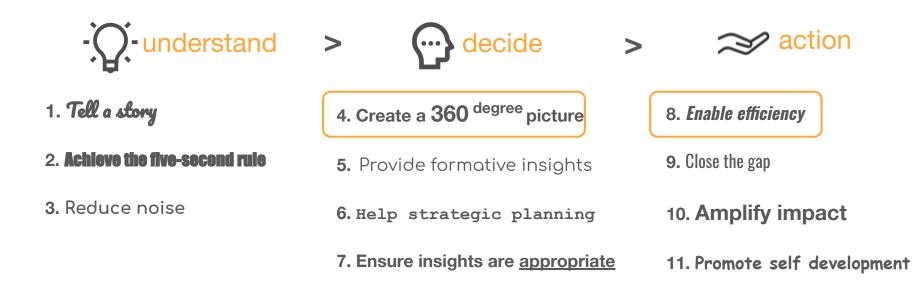
Let's rethink how to make data more actionable for you

Great dashboards empower teachers by transforming **DATA** into *insights* that enable you to





Eleven (design) principles to make data more actionable





## Let's look at two examples



# Example 1: how creating a 360-degree picture of a learner can empower decision making



#### Student performance: Week 9

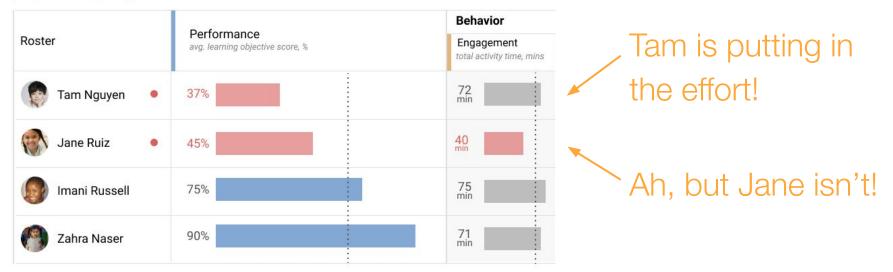
dotted lines = class average





#### Student performance: Week 9

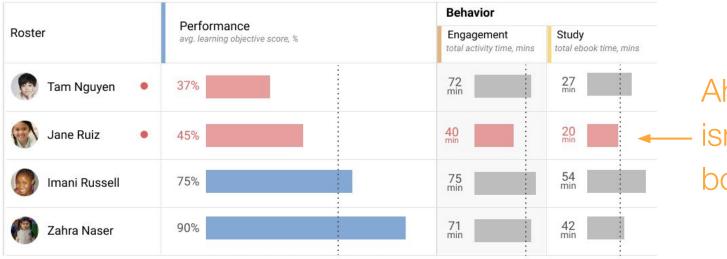
dotted lines = class average





#### Student performance: Week 9

dotted lines = class average



Ah, and Jane
isn't using the
book either..



#### Student performance: Week 9

dotted lines = class average



Hm. Zahra is cruising but gives up easily



#### Student performance: Week 9

dotted lines = class average

		Behavior						
Roster	Performance avg. learning objective score, %	Engagement total activity time, mins	Study total ebook time, mins	Perseverance avg. resubmissions per activity, #	Confidence avg. post submission, 1-5			
Tam Nguyen •	37%	72 min	27 min	3.6	3.2			
Jane Ruiz •	45%	40 min	20 min	3.5	2.2			
Imani Russell	75%	75 min	54 min	4.7	4.2			
Zahra Naser	90%	71 min	42 min	3.1	4.8			



#### Student performance: Week 9

dotted lines = class average

		Behavior	Behavior					
Roster	Performance avg. learning objective score, %	Engagement total activity time, mins	Study total ebook time, mins	Perseverance avg. resubmissions per activity, #	Confidence avg. post submission, 1-5			
Tam Nguyen •	37%	give Tar	n some 1:1	and build hi	s confidence			
Jane Ruiz •	45%	get Jan	e re-engage	ed and enco	ourage her.			
Imani Russell	75%	congrat	ulate Imani	and keep h	er engaged.			
Zahra Naser	90%	stretch	<b>Zahra</b> and g	get her to pe	ersevere.			



## I need to...

# Example 2: how class-level results can be presented to enable efficient and effective interventions for teachers



## Making data more actionable How to amplify your impact

Roster		Performance avg. learning objective score, %
6	Craig Baptista	88%
A	Haylie Bergson	77%
	Greta Botosh	90%
	Skylar Carder 🛛 🗕 🗕	68%
2	Marilyn Donin	72%
	Alfredo Hurtado	75%
0	Alena Kenter •	68%
	Omar Lubin	75%
0	Zahra Naser	90%
	Tam Nguyen 🛛 鱼	57%
	Jane Ruiz 🛛 🔸	45%
	Imani Russell	72%

....

siahts

What's the most

your class

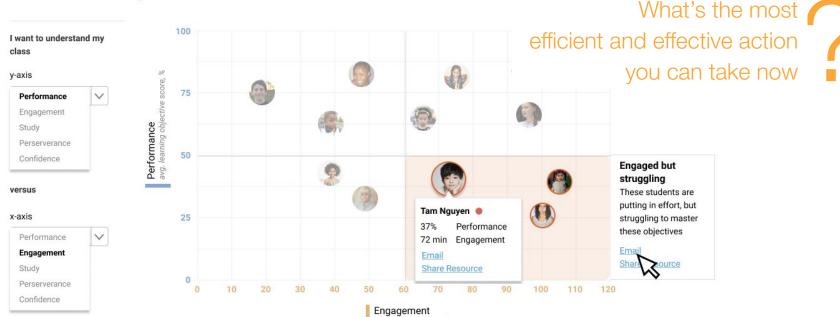
efficient and effective

action you can take if

presented with this data on

Making data more actionable How to amplify your impact

#### Student intervention categories: Week 9



total activity time, mins



## Inspiration

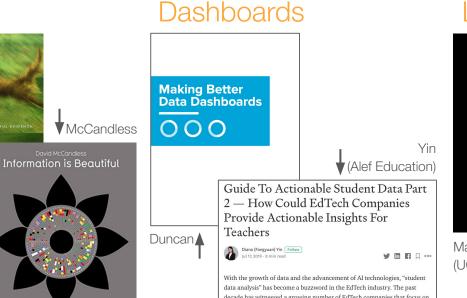


## Inspiration

# Data viz

New Edition

Tufte 🛓



### Learning science



With the growth of data and the advancement of AI technologies, "student data analysis" has become a buzzword in the EdTech industry. The past decade has witnessed a growing number of EdTech companies that focus on using data analytics to make teachers' lives easier. As the competition gets fiercer, how to make your company stand out from the crowd by providing teachers with the most relevant and helpful insights?







## Thank you!

## Dr. Adam Black www.enablinginsights.com

