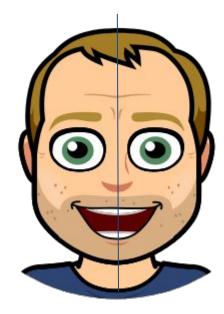


Showing Growth w/ Collaborative Workbook

Facilitator: Jonathon Lee

https://goo.gl/z5yB8P





Jonathon Lee jlee@edplus.org





metc

- Instructional Specialist
- Workshop Facilitator
- Student SHOWcase
- METC Podcast
- METC TV



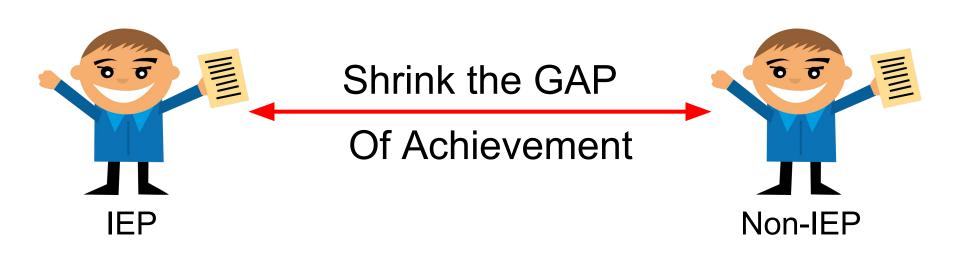


- Missouri Model Districts
- Technology Consultant
- Data Consultant
- Collaborative Work





Collaborative Work & Missouri Model Districts





Based on the work of

John Hattie

Visible Learning











Effective Practices

Collaborative Teams

Common Formative Assessments

Data-Based Decision Making

Effective Teaching Practices





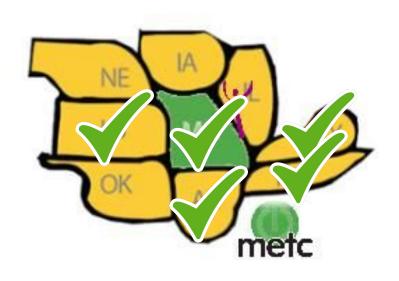


Enter the

Google Data Workbook

Also available on Excel 365











Process



NTENSE

Power Standards

Works 4 All

12th

Singletons

#gafemo17

Teams

Core _ Subjects Specialists

metc

#gafemo17



Workbook Setup Options

of Teacher/Classes per grade level/ subject

6, 10, 16, 22



Get the Workbook

https://goo.gl/5U3IZv

Remember the # of classes determines which workbook you need.



Example: 3 teachers each teach 5 sections - They would need 15 class tabs.

Options are:

Workbook 6 - Workbook 10 - Workbook 16 - Workbook 22



Let's Take a Look

goo.gl/ZhpW3K



Resource Slides



DATA PAGE



D	E	F	G	н	1	J	к	
	Wideman	Madlinger	** Denotes	IEP "				
Taylor	zzAndy		zz Denotes	AA				
Maggie	Angie	Chelsea	gg Denotes	ELL				
zStephanie	Ann		yy Denotes	boys				
Theresa	Anna	Chris	xx Denotes	Other				
Ann	ggAnthony	Cindy	Student group:		Gra	de 3		
qSam	Ashley	**zzClint		Pre-T	est	Post-To	est	
Maria	yyAustin	Colleen	Date of Assessment:	2/24/2	2016	3/14/2	016	
Mario	Becky	Corey	Standard Assessed:	3.NBT.A.3				
Abby	**Ben	Curt	Points possible:	10)	10		
Adam	Beth	Dana	Proficient:	8		8		
**Alice	yyBrad	yyDavid	Close to proficient:	6		6		
Allan	Bret	Debbie	Far to go:	4		4		
yAlison	Brie	Dennis	Intervention:	0	0	0		
Amanda	zzBrittnay	qqDorothy	Configure SMART goal:	YES		¥		
qqAmy	Carol	Drew	Total # of Students taking:	Pre-Test	175	Post-Test	145	
zAndy	Cathy	zzlee						
Angie	qqChelsea	Todd	District:	EdPlus	School:	CW		
qqAnn	Chip	**Aves Tera	Total # of Students in Grade:	171	Total # IEP:	25		
Anna	zzChris	yyTed	Total # of Teachers in Grade:	5	Date Submitted:	5/15/2016		
qAnthony	Cindy	**Sarah	Content Area	Math	Consultant:	The King		
Ashley	**zzClint	Erin						
/yAustin	Colleen	**qqKathy						
Becky	Coreyxx	qqJon						
**Ben	Curtxx	**Sam						
Beth	Dana	yyBeth						
/yBrad	yyDavid	**jamie						
Bret	Debbie	Charlie						
Brie	Dennis	**Carlqqzz						
zBrittnay	qqDorothy	Molly						
Carol	Drew	Sammy						
	30	28	171					





Step 1

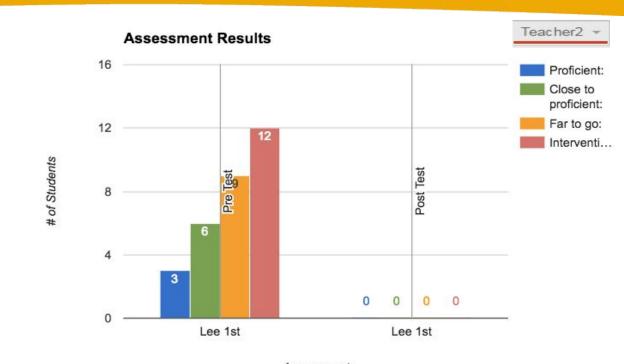
- Number and percentage of students in each performance group
- Disaggregated by teacher
- Assemble data prior to data team meeting



Grade 3

Standard Assessed:

Student Name	Pre-Test
zzStan	5
Todd	4
**Tera	6
yyTed	3
**Sarah	2
Erin	7
**qqKathy	3
nolpp	4
Jon	10
**Sam	9
yyBeth	6
**jamie	8
Charlie	5
**qqzzCarl	4
Molly	5
zzqqEarl	6



Assessment

Level 4	Level 3	Level 2	Level 1	
10%	20%	30%	40%	
Jon, **Sam, **jamie	**Tera, Erin, yyBeth, zzqqEarl	zzStan, Todd, qqJon, Charlie, **qqzzCarl, Molly, Stacy	yyTed, **Sarah, **qqKathy, Thomas, zzStephanie, Julie, yyJenea, Vicky, **Bill, zzBetsy, Stacy	75%



Analyze Strengths & Obstacles

Step 2

- Essential step often skipped or done as item analysis
- Identify strengths and misconceptions of each performance level based on student work samples
- Make inferences about targeted need of students



Steps 2-5

Data Analysis

	Strengths	Errors & Misconceptions	Inferences
Proficient			
Close to Proficient			
Far to Go			
Intervention			



Assessment Name:	3.NBT.A.3												
Date of Discussion:	3/1//2016	Participants:	J. Lee, B. Boyd, B. Prickett, B. Genenbacher										
			Data Australia										
	Data Analysis Strengths Errors/Misconceptions Inferences												
Proficient:	-mental strategies	The second secon	es and in computation, may not ept of p/p/w shown with bar	mistakes were most likely careless or rushing									
Close to proficient:	-build correct models for addition and subtraction, proper set up for problems	-missing steps incorrect ope	s in multi-step problem, ration chosen	thinking strategy has been turned into a procedure with little/no meaning									
Far to go:	-some accuracy (mostly with +), numbers aligned in problem and big number on top		e", errors regroups, unable to dels, difficulty choosing correct	-Same as close - lack of comprehension of the problem									
Intervention:	-adding small numbers	-same as "far difficulty regr	", trouble setting up problems, ouping	same as far - lack basic facts, place value, and number sense									





Step 3

Increase (what) from (this) to (that) and by (when).

- SMART GOAL assumes all students "proficient" and "close to proficient" and "far but likely to become proficient" reach proficiency
- "intervention" students will grow but will likely need more than one cycle to get to proficient



	Level 4	Level 3	Level 2	Level 1	SMART Goal Met?
Pre-Assessment Percentages	12%	19%	27%	42%	W
Pre-Assessment Students	Jon, **Sam, **jamle	**Tera, Erin, yyBeth, zzqqEarl	zzStan, Todd, qqJon, Charlie, **qqzzCarl, Molly, Stacy	yyTed, **Sarah, **qqKathy, Thomas, zzStephanie, Julie, yyJenea, Vicky, **Bill, zzBetsy, Stacy	75%

SMART goal statement:

The percentage of Grade 3 students scoring proficient or higher in 3.NBT.A.3 will increase from 9% to 48% by the end of the learning cycle as measured by the CFA administered on 3/14/2016

SG statement





Step 4

- Research-based instructional strategies
- Targeted to instructional needs determined for each performance level
- Teams must agree on:
 - strategy to be implemented for each group
 - time, frequency, and duration of implementation
 - what it should look like in the classroom

Effective Instructional Strategies	How It Looks in the Classroom
Identifying sim. & diff.	Thinking Maps. T-charts. Venn diagrams, classifying, analogies, cause and effect links, compare and
(Yields a 45 percentile gain)	contrast organizers, etc.
Summarizing and note taking	Teacher models summarization techniques, identify key concepts, bullets, outlines, clusters, narrative
(Yields a 34 percentile gain)	organizers, journal summaries, break down assignments, create simple reports, quick writes, graphic
	organizers, column notes etc.
- 1 0 1 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Reinforcing effort and providing recognition	Hold high expectations, display finished products, praise students' effort, encourage students to share
(Yields a 29 percentile gain)	ideas and expresss their thoughs, honor individual learning styles, , conference individually with
	students, authentic portfolios, etc.
Homework and practice	Retell, recite and review learning for the day at home, reflective journals, parents are informed of the
(Yields a 28 percentile gain)	goals and objectives/learning targets, grade level teams plan together for homework distribution,
•	Student Led Conferences, teacher emails, etc.
Nonlinguistic representations	Visual tools and manipulatives, problem-solution organizers, spider webs, diagrams, concept maps,
(Yields a 27 percentile gain)	drawings, charts, thinking maps, graphic organizers, sketch to stretch, storyboards, foldable, act out
	content, make physical models, etc.
Cooperative Learning	Integrate content and language through group engagement, reader's theatre, pass the pencil, shared
(Yields a 23 percentile gain)	reading and writing, science projects, debates, jigsaw, etc.
(Tields a 23 percentile gain)	reading and writing, science projects, debates, jigsaw, etc.
Setting obj. and providing feedback	Articulating and displaying learning targets/goals, KWL, specific feedback, etc.
(Yields 23 percentile gain)	
Generating and testing hypothesis	Thinking processes, constructivist practices, investigate, explore, social construction of knowledge, use
(Yields 23 percentile gain)	of inductive and deductive reasoning, multiple solutions, etc.
Questions, cues, & adv. organizers	Graphic organizers, guiding questions, think alouds, inferencing, predicting, drawing conclusions, skim
(Yield a 22 percentile gain)	chapters to identify key vocabulary, concepts and skills, annotating the text, etc.

	Work of John Hattie
Effective Strategies	How It Looks in the Classroom
Metacognition .69 effect size	Development of mental maps, awareness of one's own actions and their effects, monitoring plans throughout a process, self-evaluation of completed plan, etc.
Feedback .73 effect size	Providing information about what a student does or does not know, and what direction a student must take to improve-timely, corrective, specific, verified and focused on product.
Assessment Capable Learner off the chart effect size	Students self-assess, track and share progress, confidence grows, increased motivation and achievement
Reciprocal Teaching .76 effect size	Student directed practice where students work collaboratively to predict, clarify, question and summarize.
Direct Instruction .59 effect size	Incorporates 7 essential steps in a lesson; goal, measure, hook, presentation, guided practice, wrap up/closure, independent practice
Differentiated Instruction .60 effect size	Instructional process to help students follow their own path to maximize growth.
Classroom Discussion .82 effect size	The effect size increases when students talk more regarding critical response to text. Text focused responses, reader focused responses. The effect size decreases when there is more teacher talk and less student talk.
Engaging Student Learners .48	Incorporates four components of engagement; attentive, committed to learning, persistent, and learning is meaningful and valuable to student.

Spaced vs. Massed Practice



Instructional Strategies

	1110410	otional ot	10109100	
Instruction	onal Practice:			
	Instructional Strategies	Time, Frequency, Duration	Materials for Teachers & Students	Assignments & Assessments
Proficient				
Close to Proficient				
Far to Go				
Intervention				



Instructional Practice	Differentiated Instruction			
	Instructional Strategies	Time, Frequency, Duration	Materials for Teachers & Students	Assignments & Assessments
Proficient:	Cooperative learning - think, pair, share	2 times a week during math workshop with partners and individually	Problems, manipulatives, whiteboards, direction cards for students	Various problems increasing in depth of knowledge to include critical thinking. EXIT ticket - proof sheet with problem, solution, model, and written explanation
Close to proficient:	Direct Instruction with non-linguistic representation	3 times a week during math workshop in small group with teacher and then independently	Various problems (including word problems) blank math bar models and manipulatives	Practice working backward with completed models and writing word problems to go with solved problems. For assessment student will show this process on an exit ticket independently.
Far to go:	Non-linguistic representation - break apart	3 times a week, small group rotation with teacher during math worksho and use word problems when setting up numbers for problems.	graphic ogranizer for place vulae, various problem +/-, whiteboards	Various problem +/-, word problems with small group. Exit ticket - students solve problmes using break apart strategy
Intervention:	Problem solving +/- with manipulatives	Daily small group work with teacher during math workshop and independent work time	Variety of manipulatives (cubes, rekenreks, etc.), various problems, whitebaords	Model numbers and solve various problems with use of manipulatives. Exit ticket - model and solve 2 digit +/



Determine Results Indicators

Step 5

- What/how we monitor
- Describe adult (cause data) and student (effect data) behaviors
- Establish 'look-fors' in student work
- Done for each performance level



Achievement Level	Prioritized Next Step	Adult Behaviors	Student Behaviors	What to Look for in Student Work		
Proficient:	Ensure students move from knowing to understanding.	Teachers will teach cooperative learning strategy think, pair, share through modeling (if necessary). Teacher will also provide guided practice in proving mathematical problems beyond the model using words, written and verbal, to demonstrate implementation of concepts	Students will solve mathematical problems independently, pair to explain and share their solution. Partners will work toward a model and written explanation	Accurately solve problems using a model and be able to provide writter explanation demonstrating implementation of the mathematical concept.		
Close to proficient:	Build conceptual understanding to further develop understanding of standard algorithm	Teachers will directly instruct students that numbers within a problem have a direct relation to the funtion of the problem demonstrated through part-part-whole and can be shown using math bar model. Teacher will model checking work for accuracy using the bar model.	Students will work backward from a completed bar model to a mathematical problem to demonstrate an understanding of the relationship among the model, function, and problem. Students will also check accuracy of addition and subtraction problem solving using bar model.	Students will solve 3-digit addition and subtraction problems (inclding word problems) and prove accuracy of computation with a bar model		
Far to go:	Use strategies to add and subtract within 1000	Teacher will directly instruct the process of break apart strategy to emphasize place value and model how to use break apart to check accuracy of addition and subtraction algorithm.	Students will break apart 2 and 3 digit numbers and practice adding and subtracting numbers with this strategy by completing one place value at a time, working toward solving entire problem.	Students will accurately break apart 3 digit numbers and use those models to accurately compute addition and subtraction probelms within 1000		
Intervention:	Solve mathematical problems with manipulatives	Teacher will model the use of base ten blocks to practice the process of adding and subtracting numbers. Teacher will review making models to demonstrate addition and subtraction. Teacher will directly instruct (review) addition and subtraction algorithm.	Students will use base ten blocks and other manipulatives to solve mathematical problems and convert model into wirtten number form.	Students will accurately represent numbers using manipulatives and solve 2-digit mathematical problems using manipulatives.		





Step 6

- Use evidence (student work)
- Compare to results indicators (step 5)
- Discuss effectiveness of strategy continue, modify, or stop use of strategy
- Monitoring happens throughout instruction



Complete Cycle Data

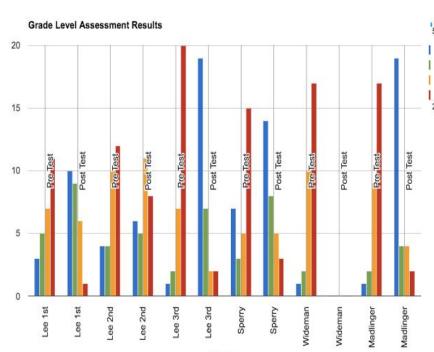
Pre/Post Comparison >

	Teacher	# Students			% Level 4	Level 4 Students	# Le vel 3	% Level 3	Level 3 Students	# Le vel 2	% Level 2	Level 2 Students		# Leve	% Level 1	Level 1 Students
Pre Test	Lee 1st	26	4	3	12%	Jon, **Sam, **jamle	5	19%	**Tera, Erin, yyBeth, zzqqEarl	7	27%	zzStan, Todd, qqJon, Charlie, **qqzzCarl, Molly, Stacy	1.0	11	42%	yyTed, **Sarah, **qqKathy, Thomas, zzStephanie, Julie, yyJenea, Vicky, **Bill, zzBetsy, Stacy
Post Test	Lee 1st	26	1	10	38%	**Tera, yyTed, Jon, yyBeth, **jamie, Charlie, **qqzzCarl, Julie, yyJenea, Stacy	9	35%	zzStan, Todd, Erin, **Sam, zzqqEarl, zzStephanie, **Bill, zzBetsy	6	23%	**Sarah, qqJon, Molly, Thomas, Vicky, Stacy		1	4%	**qqKathy
Pre Test	Lee 2nd	30		4	13%	William, Reba, Kim, Erin	4	13%	yyTed, **Steve, yyMike, Jennifer	10	33%	zzStephanie, Vicky, Don, Tony, qqHannah, **Regan, Brian, qqChris, Truman		12	40%	Thomas, Julie, yyJenea, **Bill, zzBetsy, Samantha, Sarzzah, zzVictoria, Gail, Ryan, Brad
Post Test	Lee 2nd	30		6	20%	Thomas, Sarzzah, zzVictoria, Tony, William, **Steve	5	17%	Samantha, Reba, qqHannah, Ryan	11	37%	Julie, yyJenea, Vicky, yyTed, **Regan, Gail, Brian, Brad, yyMike, Truman		8	27%	zzStephanie, **Bill, zzBetsy, Don, Kim, qqChris, Erin, Jennifer
Pre Test	Lee 3rd	30		1	3%	Taylor	2	7%	Kim, Amanda	7	23%	**Regan, Brian, **Steve, qqChris, yyMike, Truman, Maggie		20	67%	William, Reba, qqHannah, Gail, Ryan, Brad, Erin, Jennifer, zzStephanie, Theresa, Ann, qqSam, Maria, Mario, Abby, Adam **Alice, Allan, yyAlison, qqAmy
Post Test	Lee 3rd	30	1	19	63%	qqHannah, Kim, Brian, **Steve, Ryan, Brad, yyMike, Jennifer, Truman, Taylor, zzStephanie, Theresa, Ann, qqSam, Mario, Adam, **Alice, Amanda, qqAmy	7	23%	**Regan, Gail, qqChris, Erin, Maggie, Maria, yyAlison	2	7%	Abby, Allan		2	7%	William, Reba
Pre Test	Sperry	30		7	23%	Taylor, Maggie, zzStephanie, Ann, qqSam, Maria, Abby	3	10%	Theresa, Mario, Adam	5	17%	Allan, zzAndy, Angie, Anna, yyAustin		15	50%	**Alice, yyAlison, Amanda, qqAmy, qqAnn, qqAnthony, Ashley, Becky, **Ben, Beth, yyBrad, Bret, Brie, zzBrittnay, Caro
Post Test	Sperry	30	1	4	47%	Taylor, Maggie, Theresa, Maria, Mario, **Alice, yyAlison, qqAmy, qqAnthony, Ashley, yyAustin, Becky, **Ben, Carol	8	27%	zzStephanie, Ann, qqSam, Abby, Allan, Amanda, Anna, zzBrittnay	5	17%	Adam, zzAndy, qqAnn, Bret, Brie		3	10%	Angie, Beth, yyBrad

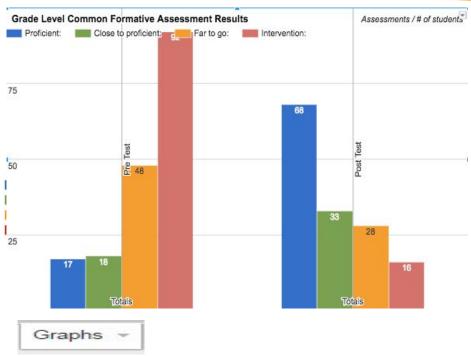




After Pre-Test	-mental strate																		
Contract of the Contract of th	econtrol atroba		St	rengths			Errors & Misconceptions				Instructional Strategies/Practices								
	me ta scae	gles									Cooperative	poperative learning - think, pair, share							
lose to proficient:	-build correct	models for addition and subtraction, proper set up for problems				-missing steps in multi-step problem, incorrect operation chosen Direct I					Direct Instru	Instruction with non-linguistic representation							
ar to go:	-some accura	uracy (mostly with +), numbers aligned in problem and big number on top				same as "close", emors regroups, unable to complete models, difficulty choosing correct. Non-linguis function					Non-linguist	Sic representation - break apart							
tervention:	-adding small	numbers					-same as "far",	trouble setting up	p problems, di	ficulty regroup	ing		Problem solv	ving +/- with mar	nipulatives				
	in 3				Pre-A	ssessme	nt							e.					
Total Possible Score for Pretest	10			Di	ate of Assess	ment:			2/24/2016										
Groups	Total Possible Score	# All Students	IEP	AA	ELL	boys	Other	% All Students	IEP	AA	ELL	boys	Other						
oficient:	8	17	2	2	1	0	0	9.7%	8.3%	10.0%	4.8%	0.0%	0.0%						
ose to proficient:	6	18	4	3	1	4	0	10.3%	16.7%	15.0%	4.8%	23.5%	0.0%						
ir to go:	4	48	7	4	6	4	1	27.4%	29.2%	20.0%	28.6%	23.5%	50.0%						
tervention:	0	92	11	11	13	9	1	52.6%	45.8%	55.0%	61.9%	52.9%	50.0%						
TOTALS		175	24	20	21	17	2						-						
					D t														
Total Possible Score for Posstest	10	Post-Assessment Date of Assessment:					3/14/2016				% Change from Pre-Test to Post-Test								
	Total Possible Score for Levels	# All Students	IEP	АА	ELL	boys	Other	% All Students	IEP	AA	ELL	boys	Other	%All Students	IEP	AA	ELL	boys	Othe
roficient:	В	68	11	6	10	8	0	46.9%	50.0%	37.5%	55.6%	57.1%	0.0%	37.2%	41.7%	27.5%	50.8%	57.1%	0.
ose to proficient:	6	33	6	7	4	1	0	22.8%	27.3%	43.8%	22.2%	7.1%	0.0%	12.5%	10.6%	28.8%	17.5%	-16.4%	0.0
ar to go:	4	28	3	1	2	4	0	19.3%	13.6%	6.3%	11.1%	28.6%	0.0%	-8.1%	-15.5%	-13.8%	-17.5%	5.0%	-50.
tervention:	0	16 145	22	2 16	2 18	14	0		9.1%	12.5%	11.1%	7.1%	0.0%	-41.5%	-36.7%	-42.5%	-50.8%	-45.8%	-50.0

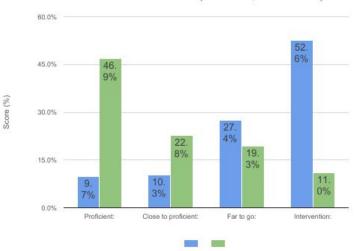


Teacher



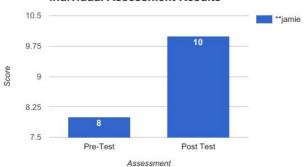




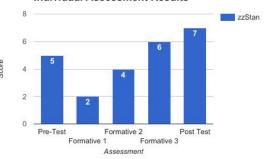




Individual Assessment Results



Individual Assessment Results







Student Artifacts: Use this tab to capture student work on the standard being assessed. You can insert a picture that you have on your machine, insert a link to a file in your Drive or capture a picture of the document using your webcam.

<u>Artifacts</u> - link assessment or provide picture of assessment, scoring guide, anchor papers



	Different Templates Available			
		this workbook needs to be careful is tab to locate issues that arise and problems.	14.00 CH : HERE THE CONTROL OF THE	Help Ticket Form
How to:	Link to Video:	Errors:	Link to Video:	
Add/Remove Students	https://youtu.be/u-dm51VofpE	Duplicate Names on Teacher tabs	https://youtu.be/ AAx Gq9V5k	
Add/Remove Students Mid Cycle	https://youtu.be/-bz1cTRRdM4	Names don't match Data Tab	Should be within the above video	
Locking/Unlocking Cells	https://youtu.be/tfHnCY3XOAE	#ref error message	https://youtu.be/0G6Ft4cjfs0	
Using Revision History	https://youtu.be/8DcRCsOlfol	Names not showing on Summary Pages	https://youtu.be/qb55h2F-rz0	
SMART Goals	https://youtu.be/ojDbiRw514s	Data not computing correctly	https://youtu.be/x69s5LlHyKQ	
Using Subgroups	https://youtu.be/1dwZ30GxbUs	Fix/Correct Formulas	https://youtu.be/xsCJHKJdkBc	
Reading Formulas	https://youtu.be/jLjrnhBLeJg			
Hiding Cells/Tabs	https://youtu.be/X7ozHrr qJQ			
Set Proficiency Levels	https://youtu.be/Qs94Db9t9Lw			

<u>Troubleshoot</u> - having problems, click on the link to watch a 2 to 3 minute video to answer questions or solve a problem, or fill out and send a HELP ticket