SEESAW SCIENCE TEKSTASKS

USING SEESAW TO BOOST PERFORMANCE ON STAAR

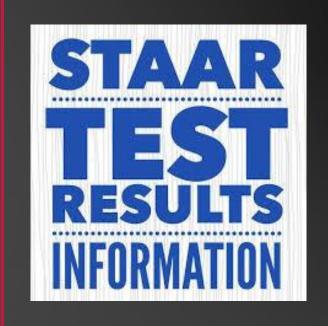
(please download seesaw on to your devices if you don't already have it)

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INSTRUCTIONAL SPECIALIST, ANTHONY ISD

IN EARLY FEBRUARY OF 2017 A GRADE LEVEL OF 5TH GRADERS TOOK A MOCK 2016 SCIENCE EXAM AND GOT AN APPROACHES PASSING RATE OF 28% WITH 0% MASTERY.

IN MAY OF 2017 THE SAME GROUP GOT AN APPROACHES PASSING RATE OF 85% WITH 12% MASTERY.



	Science					
	Total Students	Percent Score	Approaches	Mastery		
Anthony Elementary School	68	51.90%	27.94%	0%		
Hispanic	65	51.88%	27.69%	0%		
White	3	52.33%	33.33%	0%		
Female	27	51.67%	22.22%	0%		
Male	41	52.05%	31.71%	0%		
Gifted Talented	8	69.25%	75%	0%		
LEP	17	49.82%	17.65%	0%		
Second Year of Monitoring	3	72%	100%	0%		
Section 504	4	38%	0%	0%		
Special Ed Indicator	4	33.25%	0%	0%		

Mock Exam 2016 Release Taken the last week of January 2017

2017 STAAR Results for Anthony ISD 5th Grade

	Science						
	Total Students	Percent Score	Scale Score	Approaches GL	Meets GL	Masters GL	
Anthony Elementary School	65	70.40%	3853.71	84.62%	35.38%	12.31%	
Hispanic	62	70.32%	3847.87	85.48%	35.48%	11.29%	
White	3	72%	3974.33	66.67%	33.33%	33.33%	
Female	25	72.40%	3903.24	88%	44%	12%	
Male	40	69.15%	3822.75	82.5%	30%	12.5%	
Gifted Talented	8	86.50%	4351.88	100%	87.5%	62.5%	
LEP	16	66%	3729.44	87.5%	12.5%	6.25%	
Second Year of Monitoring	3	83.33%	4149.33	100%	100%	0%	
Section 504	3	68.67%	3794	66.67%	66.67%	0%	
Special Ed Indicator	4	46.50%	3314.50	25%	0%	0%	

WE OUTPERFORMED ALL OF THE DISTRICTS IN OUR REGION

Grade 5 Anthony ISD Canutillo ISD Approaches GL: 84.62% Approaches GL: 79.26% Meets GL: 48.16% Meets GL: 35,38% Masters GL: 12.31% # of Testers = 65 # of Testers = 434 Clint ISD Dell City ISD Approaches GL: 68.42% Meets GL: 33.52% Approaches GL: 00.00% Meets GL: 00,00% Masters GL: 00.00% = of Testers = 3 El Paso ISD Fabens ISD Approaches GL: 67.52% Meets GL: 38.22% Approaches GL: 72.09% Meets GL: 38.35% Masters GL: 15.59% # of Testers = 4,156 # of Testers = 157 Ft. Hancock ISD San Elizario ISD Approaches GL: 76.67% Meets GL: 53.33% Approaches GL: 65.06% SAN ELIZARIO Meets GL: 28.10% Masters GL: 11.11% # of Testers = 30 # of Testers = 306 Sierra Blanca ISD Socorro ISD Approaches GL: 33.33% Approaches GL: 83.48% Meets GL: 48.93% Meets GL: 00.00% Masters GL: 00,00% # of Testers = 9 Tornillo ISD Ysleta ISD Approaches GL: 56.57% Meets GL: 21.21% Masters GL: 9.09% Meets GI: 42.02% Masters GL: 17.40% # of Testers = 99 # of Testers = 2,913 **REGION 19 Average** State Average Approaches GL: 75.85% proaches GL: 73.00% Meets GL: 41.00% ESC19 Meets GL: 41.38% Masters GL: 17.06% # of Testers = 12,738 # of Testers = 385,853



State Average

Approaches GL: 73.00% Meets GL: 41.00% Masters GL: 17.00%

of Testers = 385,853



REGION 19 Average

Approaches GL: 75.85%

> Meets GL: 41.38%

Masters GL: 17.06%

of Testers = 12,738



Anthony ISD

Approaches GL: 84.62%

Meets GL: 35,38% Masters GL: 12.31%

of Testers = 65

HOW DID THEY DO IT?

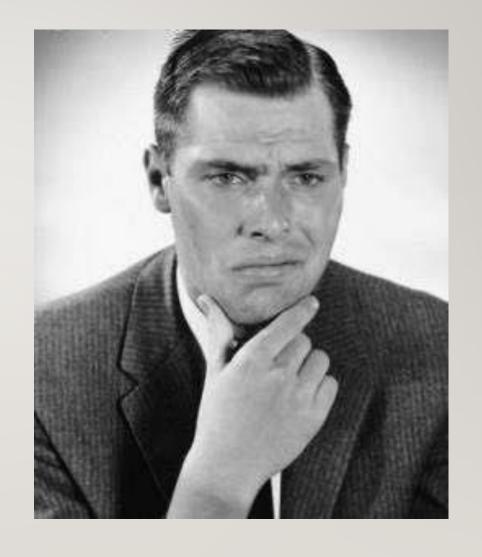
HOW DO WE GET
KIDS TO PASS THIS TEST
WITHOUT KILLING
OURSELVES OR
BURNING OUT KIDS?



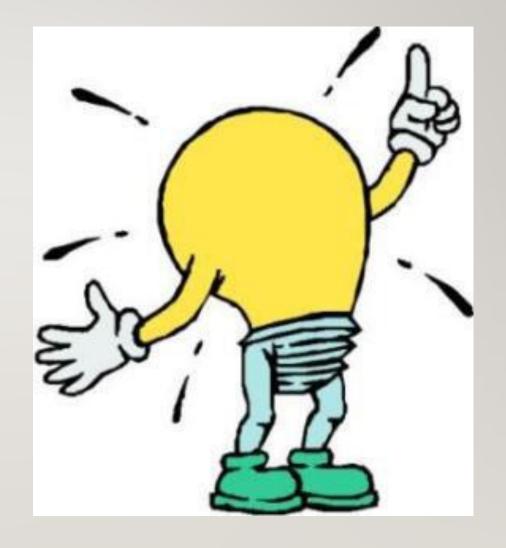
ANOTHER ISSUE: AFTER A UNIT EXAM SO MANY STUDENTS MISS THE CONCEPT AND WE DON'T HAVE TIME TO RETEACH!!!



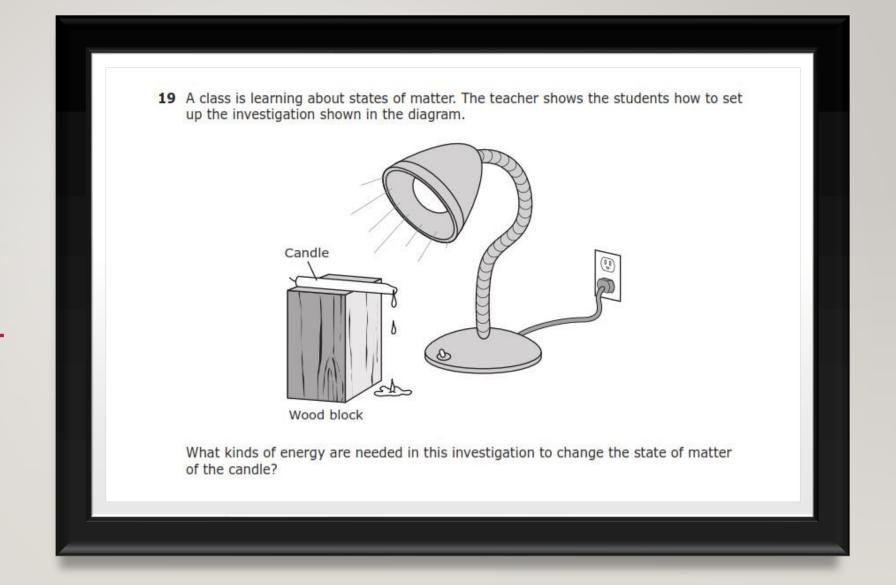
LET'S SEE WHAT WE CAN DO...



TEKS TASKS!... LET'S DO ONE



USES OF ENERGY TEST INVESTIGATION (5TH GRADE 5.6A)

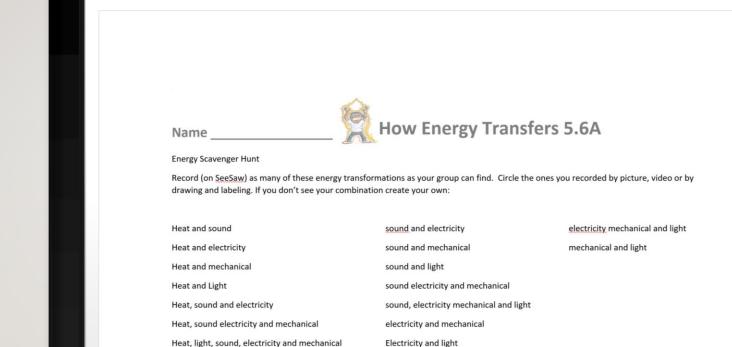


USES OF ENERGY TEST INVESTIGATION (6TH GRADE 6.9C)

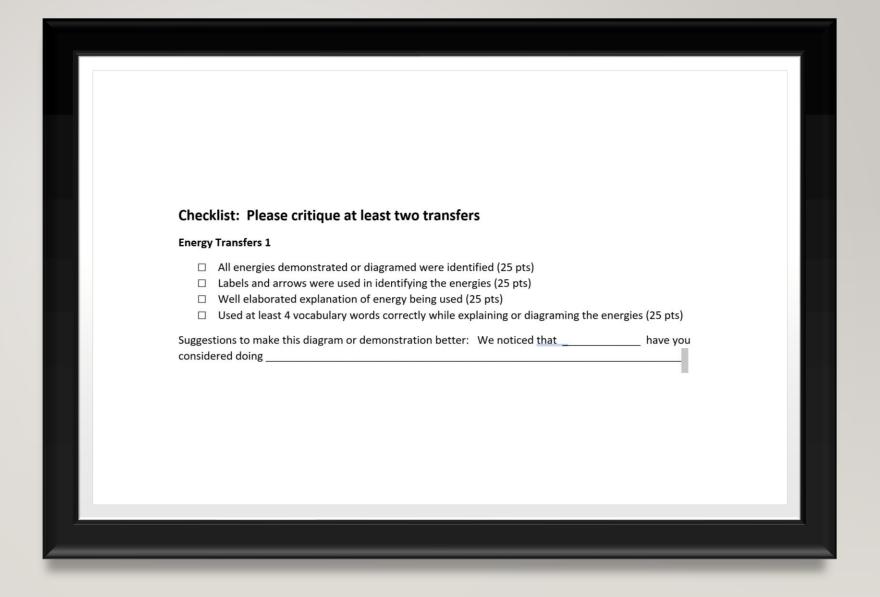
A cook heats a meal in a microwave oven. What energy transformations occur between the microwave oven and the meal? F Electrical energy → light energy → chemical energy G Chemical energy ---- thermal energy ---- light energy H Electrical energy ----- electromagnetic energy ----- thermal energy J Chemical energy → electromagnetic energy → chemical energy

USES OF ENERGY TEKS TASK INVESTIGATION: REPORT OUT ON SEESAW (5TH GRADE 5.6A, 6TH GRADE

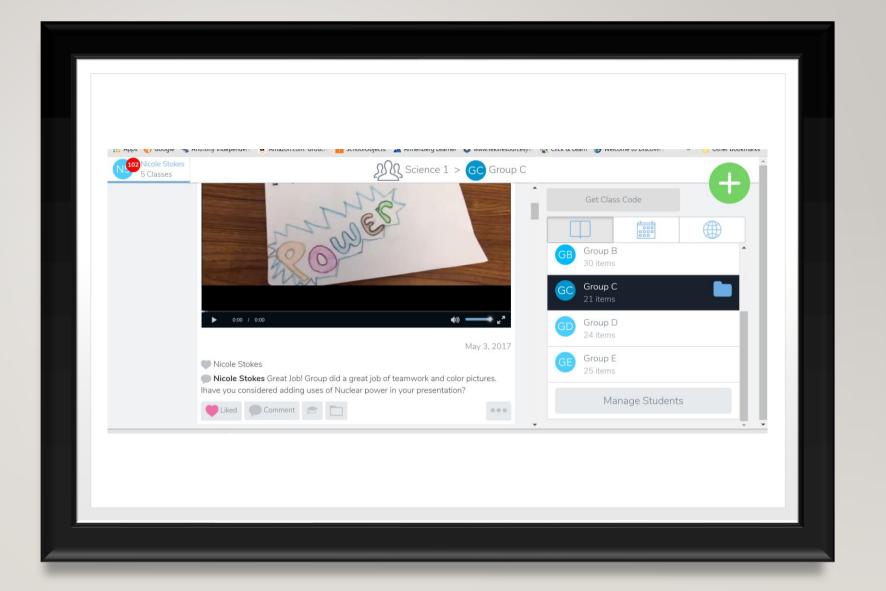
6.9C)

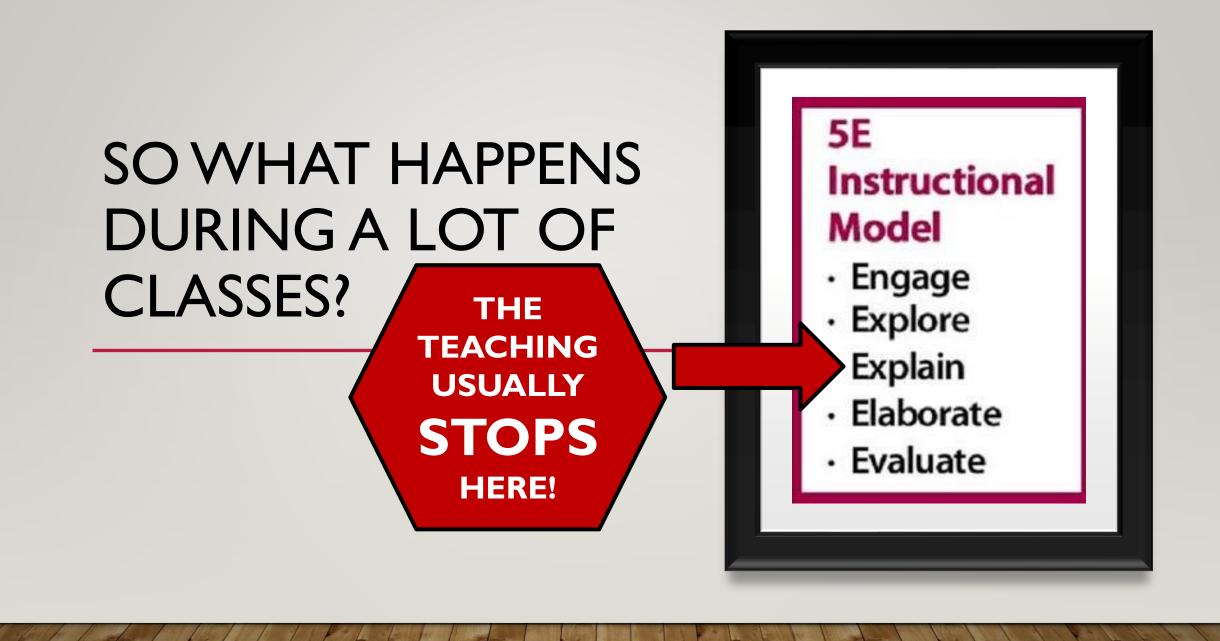


CHECKLIST FOR A CRITIQUE



CRITIQUING THE SUBMISSIONS ON SEESAW





YOU'LL KNOW IF THIS HAPPENS WHEN YOU ARE SAYING AT PLC...

- We covered that
- We did that lab
- We read about that
- We went over the vocabulary
- Don't you guys remember?
- Hello? Remember we did this in class?

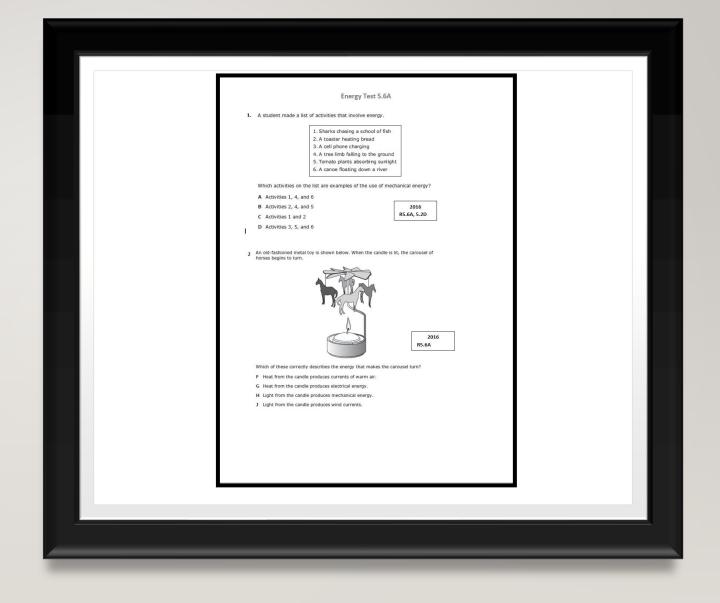
SO WHAT IS A TEKS TASK?

- A TEKS TASK is an ELABORATE part of the 5E in which the student is actually doing the verb and content of the standard on their own without help from you
- This is a project based formative assessment that is created so that teacher and students can gauge learning BEFORE taking the summative, therefore eliminating the majority of reteaching

Let's take a look at the electricity task

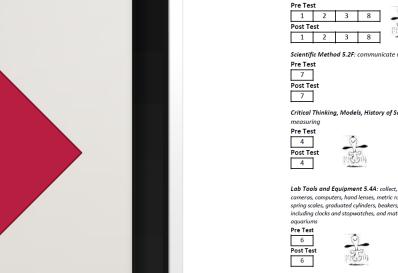
PRE-ASSESSMENT

BEFORE 5E BEGINS, STUDENTS ARE GIVEN A PRE-ASSESSMENT THAT THEY WILL TRACK THEIR PROGRESS WITH



STUDENTS TRACK THEIR PROGRESS WITH A TRACKER THAT LISTS THE STANDARDS THEY ARE LEARNING

Students track both content and process standards and question numbers. Do not go over the test until post test.



Properties of Matter Tracker Sheet

Readiness 5.6B: demonstrate that the flow of electricity in circuits requires a complete path through which an electric current can pass and can produce light, heat, and sound

1	2	3	4	5	6	7	8	9	10	11
st Test										
1	2	3	4	5	6	7	8	9	10	11



Scientific Method 5.2D: analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence



Scientific Method 5.2F: communicate valid conclusions in [both] written [and verbal] form[s]

Critical Thinking, Models, History of Science 5.3A: collect information by detailed observations and accurate

Lab Tools and Equipment 5.4A: collect, record and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, prisms, mirrors, pan balances, triple beam balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets and notebooks, timing devices including clocks and stopwatches, and materials to support observations of habitats or organisms such as terrariums and

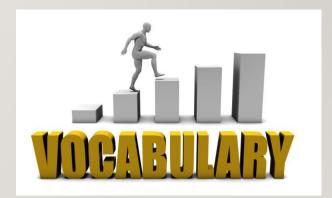
TEACHER TEACHES
CONCEPT WITH KIDS
USING ENGAGE,
EXPLORE AND
EXPLAIN MATERIALS

TEXTBOOK, STEMSCOPES, OTHER RESOURCES....



USING THE WORDING OF THE STANDARDS,
AND THE EXAMPLES OF THE RELEASE THE TEACHER CONSTRUCTS A TEKS TASK (PERFORMANCE ASSESSMENT)
FOR THE STUDENT TO DO TO SHOW THEY UNDERSTAND THE CONCEPT. STUDENTS MUST RELATE VOCABULARY TO THEIR PROJECT

TIME TO SHOW WHAT WE KNOW!!!!

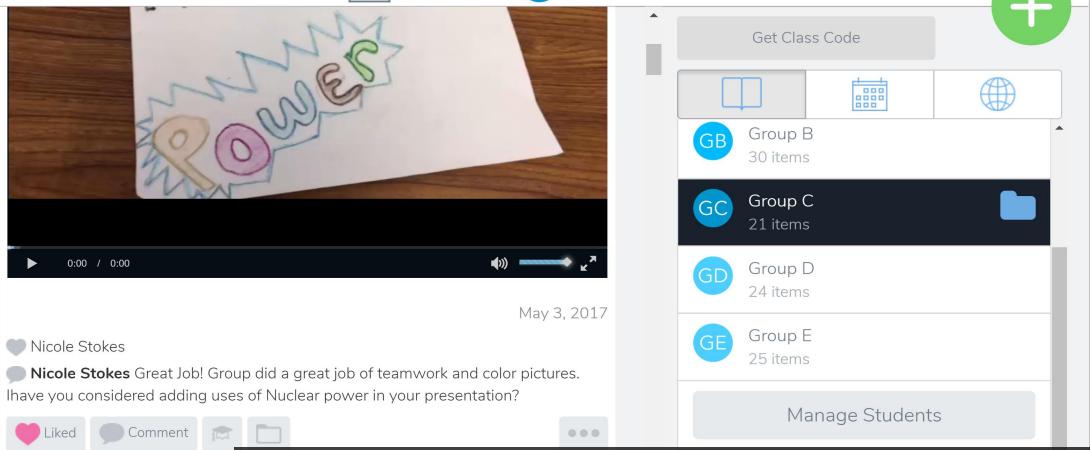


CRITIQUE: STUDENTS AND TEACHER GIVE FEEDBACK AND ALLOW STUDENTS TO GO BACK AND FIX THEIR MISTAKES

Creating a safe atmosphere for learning



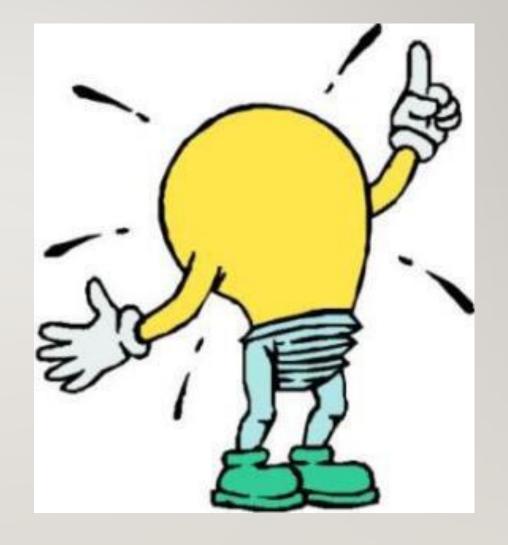




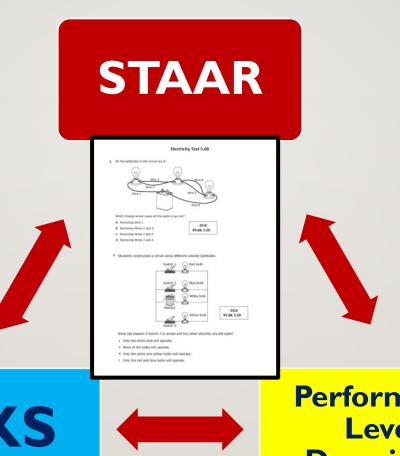
CRITIQUING THE SUBMISSIONS ON SEESAW

STUDENTS TAKE THE POST TEST

TEKS TASKS!... LET'S DO ANOTHER



TEKS VS PERFORMANCE LEVEL DESCRIPTORS



TEKS

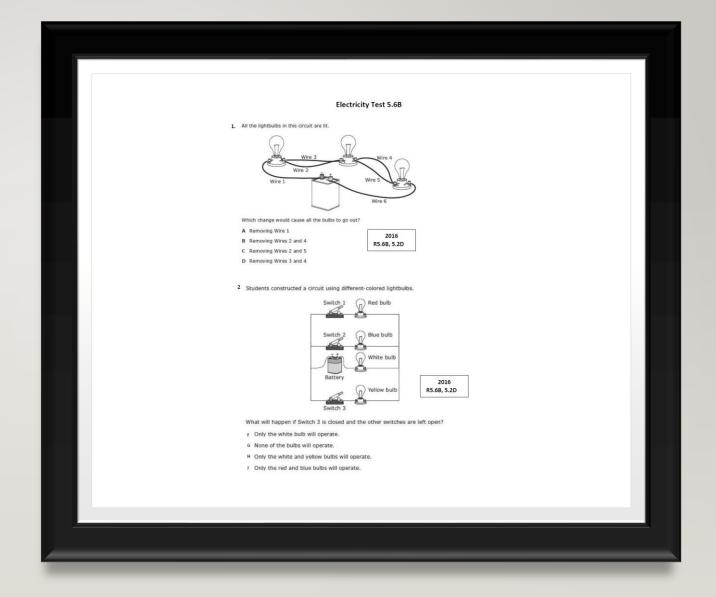
The student will demonstrate that the flow of electricity in closed circuits can produce light, heat and sound

Performance Level Descriptor

Explain the flow of energy in series and parallel circuits

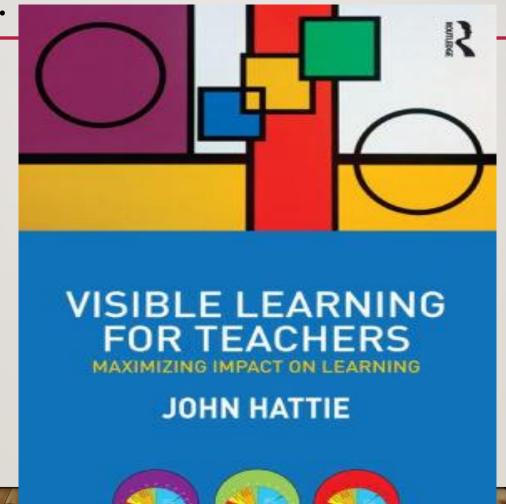
LETS TAKE A LOOK AT A PRE/POST TEST!

• Tasks are created with the wording of the standard, performance descriptor and examples from release items



THE RESEARCH BEHIND THE TEKS TASKS

APPROACH...





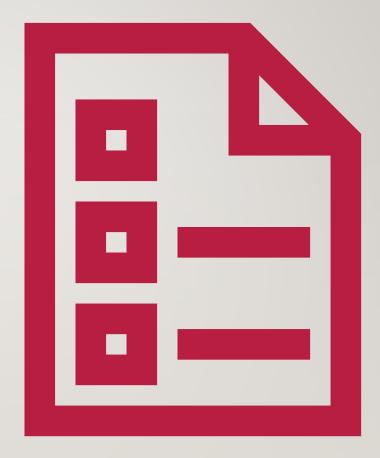




FEEDBACK

FEEDBACK HAS A LARGE EFFECT SIZE! (CAN ACHIEVE OVER A YEAR'S WORTH OF GROWTH)

 The idea of feedback is not what you would think it would be. Feedback is not advice, praise or evaluation. Feedback is a process that involves...



COMPONENTS OF FEEDBACK:

WHERE AM I GOING?

• The teacher has an idea of and can communicate to students what the goal is ... (in this case... pre-test, teacher knows the test items, standards and performance levels)

HOW AM I GOING THERE?

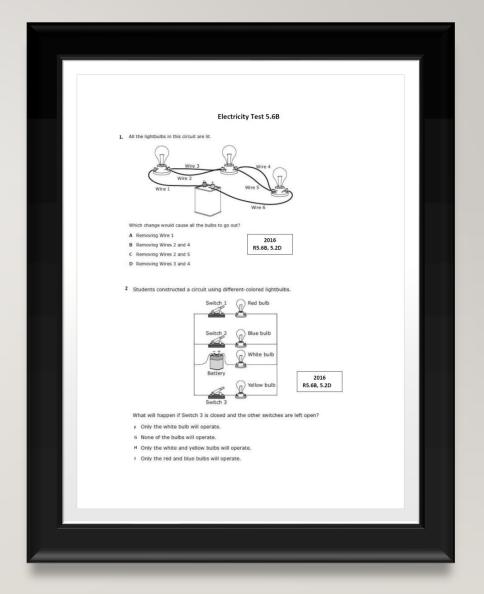
• The teacher has strategies and processes to get the student there that will allow the student to gauge their own learning (teaching concept, the teks task, vocabulary development, practice with processes)

WHERETO NEXT?

• Students and teacher can gauge if there was success or if more help is needed before moving on to the next concept (Trackers that will identify students for RTI with precise intervention)

WHERE AM I GOING? PRE-ASSESSMENT

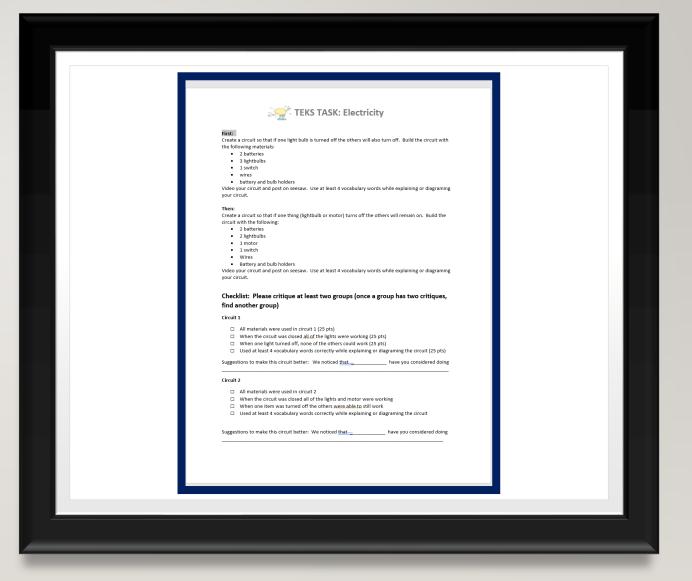
BEFORE 5E BEGINS, STUDENTS ARE GIVEN A PRE-ASSESSMENT THAT THEY WILL TRACK THEIR PROGRESS WITH



HOW AM I GOING THERE?

ENGAGE, EXPLORE, EXPLAIN, TEKSTASK

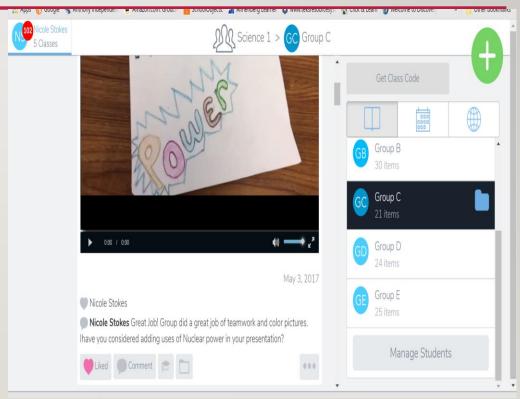
STUDENTS DO TEKS TASK TO SHOW
DEEPER UNDERSTANDING OF
STANDARD THAT ALLOWS FOR
RIGOR



SO,...WHY CRITIQUE THE TEKS TASK ON SEESAW?

THE USE OF SEESAW FACILITATES

- A place where teachers can collect student work as a formative assessment to see where students are on a concept
- A safe atmosphere where students can submit their work and receive feedback
- A place where students can use engineering concepts "iterations" to fix their work and seal the learning!



WHERE TO NEXT?

STUDENTS FOLLOW UP ON GOAL SETTING

STUDENTS TAKE THEIR POST TEST
AND TRACK THEIR OWN PROGRESS.
THEY CAN EVEN REQUEST
TUTORING FOR THEMSELVES.



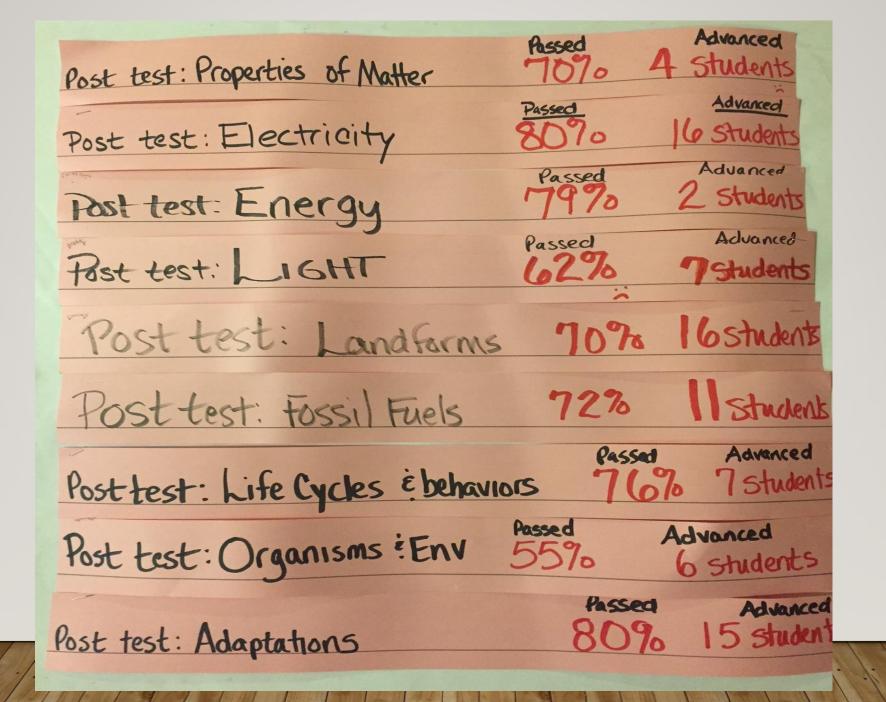
HOW DID WE DO IN 2017?

BEFORE TEKS TASKS

 25% passing on standards for the mock

AFTER TEKS TASKS

 Up to 85% passing on the post tests and 85% passing on the STAAR (in a 3 and I/2 month period after the mock test)



WHAT HAPPENED AFTER 2017?

5th Grade 2018: 80% Approaches 35%Meets and 16% Mastery (with a new bilingual teacher from New Mexico)

5th Grade 2019: Mono: 80% Approaches, 48% Meets and 16% Mastery

8th Grade 2019: 80% Approaches, 35% Meets, 16% Mastery

(up from 2018: 64% Approaches, 37% Meets and 16% Mastery)

YOUR TURN, YOU DESIGN A TEKS TASK!

YOUR TASK

- Think of a standard that repeatedly gives your students problems
- Examine the process and content standards tested
- Read the PLD to find out if that standard is in the PLD and how it is described
- Come up with a task for kids to do that involves the standards (process and content) using the examples in the test items and the PLD
- Give an opportunity for students to relate vocabulary to content

- Come up with a materials list
- Come up with a rubric for students to follow and critique
- Track your progress

WHERE CAN I FIND OUT MORE?

El Paso ScienceTeachers K-12Website

- Lora Holt -- Instructional Specialist
- Anthony ISD... <u>techscichick@gmail.com</u>
- lholt@anthonyisd.net