John Almarode, Ph.D. James Madison University @jtalmarode



- Homework
- Ability Grouping
- Phonics versus Whole Language
- Charter Schools
- Retention
- One-to-One Laptops
- Class Size
- Flipped Classrooms
- Socioeconomic Status (SES)
- Parent Involvement
- Personalized Learning
- Problem-Based Learning



Explain

I can explain what works best in teaching and learning. I can list the characteristics of an assessment-capable visible learner.

List

Identify

I can identify key findings from the science of learning.

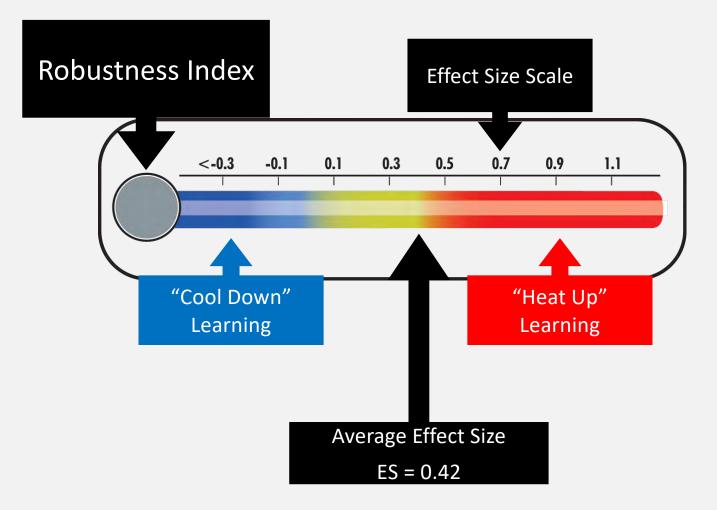


Meta-Analysis



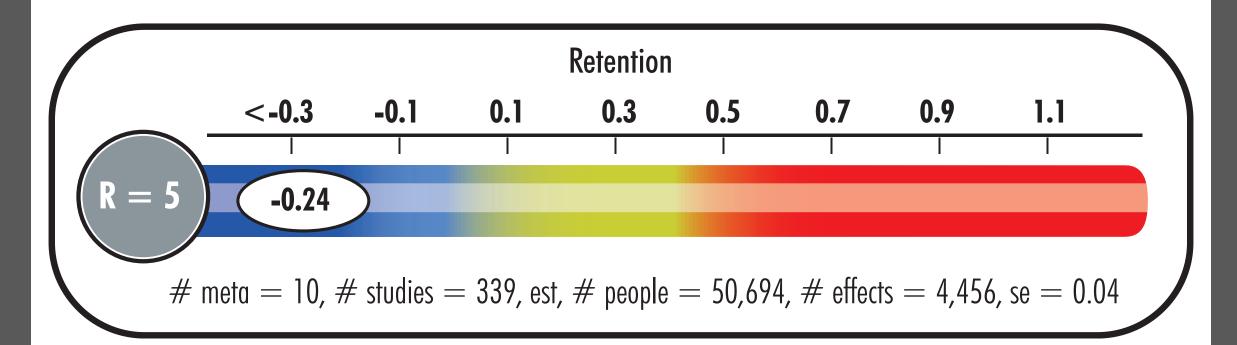
Effect sizes help us understand our impact in terms of growth.

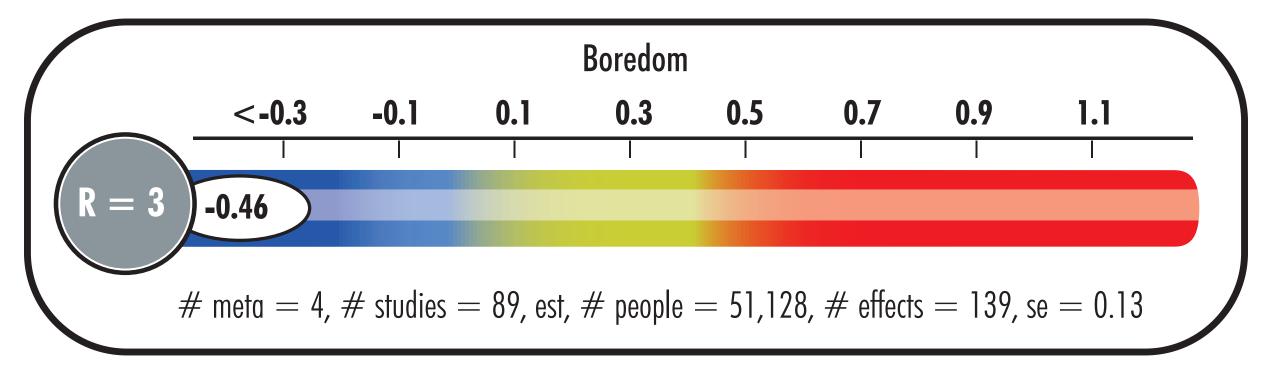
Thermometer of Influence



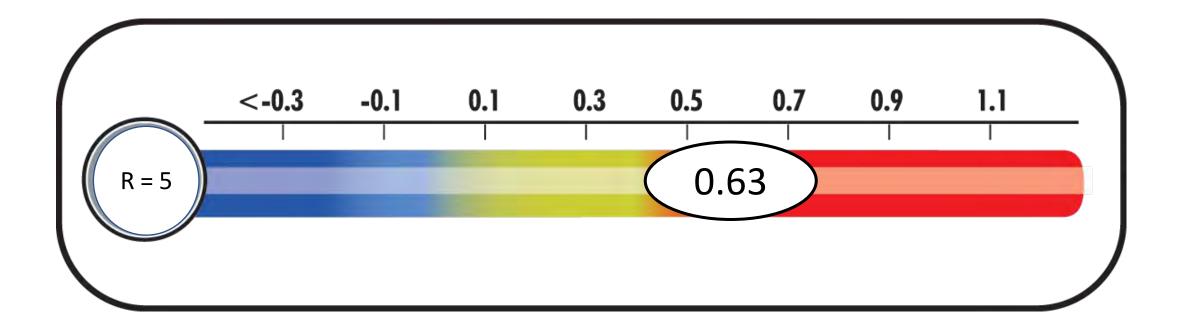
2,103 meta-analyses 132,389 studies 353,076 effects 350+ influences 427,546,505 students







Acquiring Surface Knowledge: Outlining and Summarizing

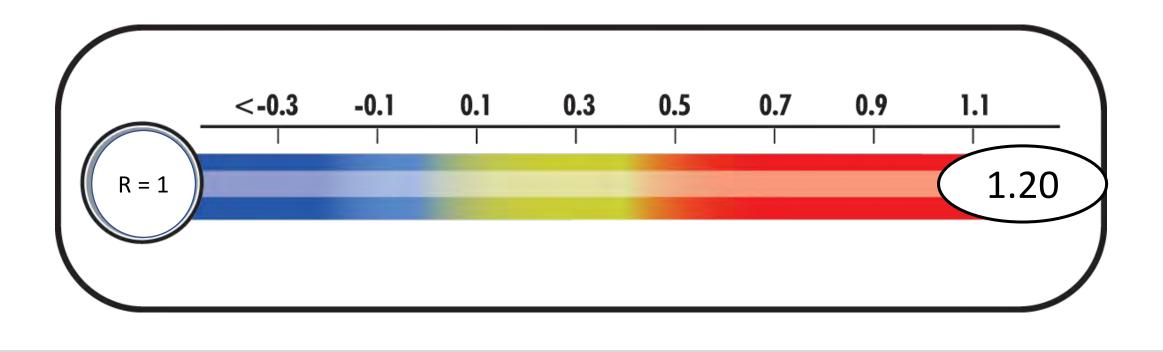


The quality of teaching is the most important controllable factor that impacts student learning.

Effect sizes point us towards influences that have the potential to impact student learning.

This potential must then be converted into true impact through effective implementation.

Jigsaw Strategy



Cooperative Learning Strategy

MOVIECLIPS COM

Put the Who before the do!

"I know where I am going."



"I have tools for the journey."

AT FEAR AND A SUBMITION COLOR OWNER AND SUBMITION AND SUBMITION

the way have not show that the transfer of

HARITAR ANALYSIS TO A SECTION STATE

FORG

"I monitor my progress."

"I recognize when I am ready for what is next."

"I know what to do next."

We do not pay attention to things that are not interesting.



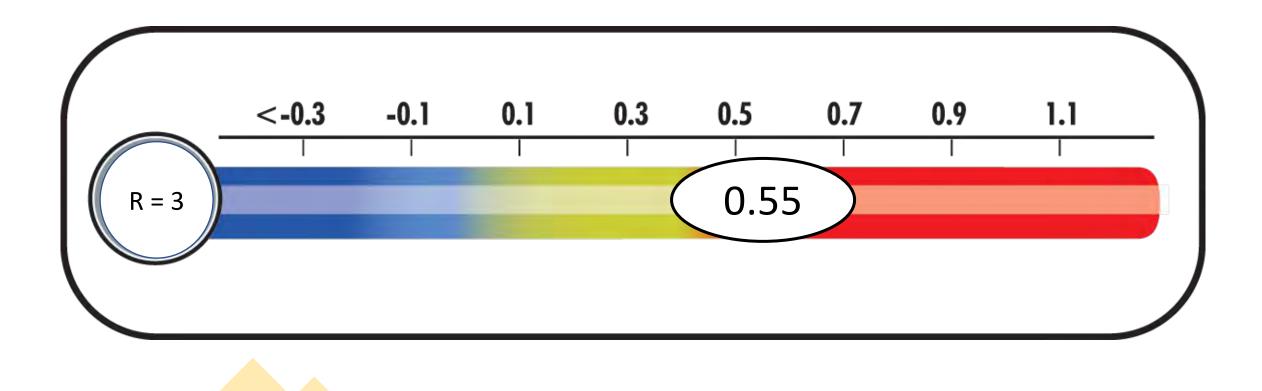


Motivation ignites learning, but motivation alone is not enough.

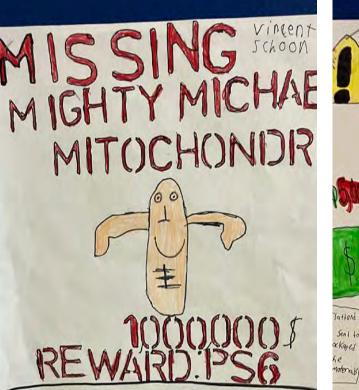
We remember what we encode.



Imagery







What He did - Mighty Michael Produced energy or the rel soit could touch grass

tound, Call

whathaffend to the cell since he went missing "the cell has b low on energy and has been Playing connite all day How he went missing mighty michael was a formar you taker and was

9,999, 899. 199 fornite tornament so he was ridnapped E-EMISHTY MICHAEL does not return the cell would Stor Working and play forthite for the rest of its life

999-828-5496

I'm 19hty michael does not Retarn his hot will will till to take his no

Julianne MISSING GEORIA THE GOLGI BODY

Reward: \$10,000

200 : Proteins and other moterials are sent to her. Then, she packages and distributes the materials to other parts of the Cell. They also send materials to the outside of the Cell. She is also an engineer.

How she went missing: She got stuck in Punta Canta While was on Vacation. Since she can't get home, someone has to thy down and bring her home.

What will happen to ner it she doesn't return: ER won't able to send proteins to her it she's gone . She will have to buy a house in Punta Cana .

What has have need to the cell since it went missing: The ER wasn't able to send proteins to her, so some proteins aren't Flowing through. Meanwhile, Georgia is living her best life on the beach. She does not miss her job because she is sitting on the beach every day, but she does miss her triends.

Other Organelles that may be affected by her not returning :

Lysosomes

Riberomes

Details: Last seen on September 5, 2020

Endoplasmic Reticulum

Full name : Georgia Rose Golgi Body

Adress: 731 Water Road Avenue

Age: 26 years old

ck 77

ck then

netion

100

LVSOMES HEL LAST SEEN mum JAN SAY HE 12 RAN AWA 2011 ADGOE 2 ysomes are like the clean up crew, they get rid of toxis The sell is very sick and daes not Want to get other sells self. The organises are so sod and cant even Bet off the toliet Kaser Devlin The cell will be very dirty if he doe not CALL (123)=456=789

LANCEN

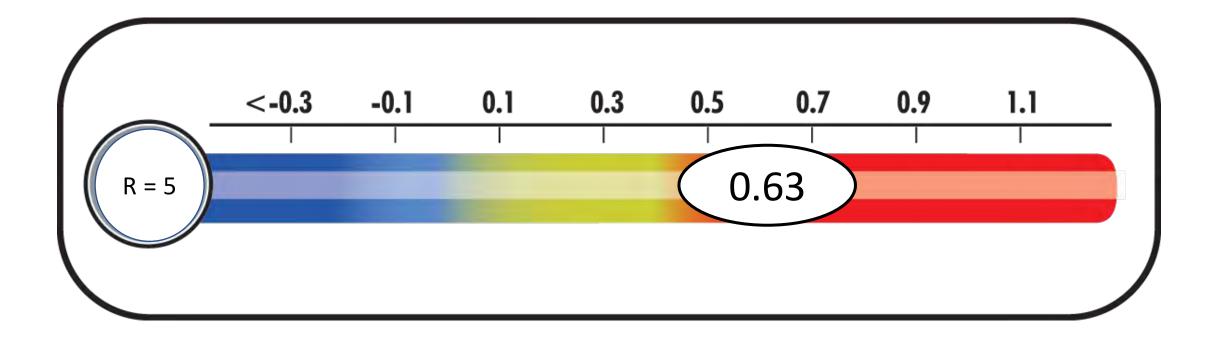
MISSING

KD

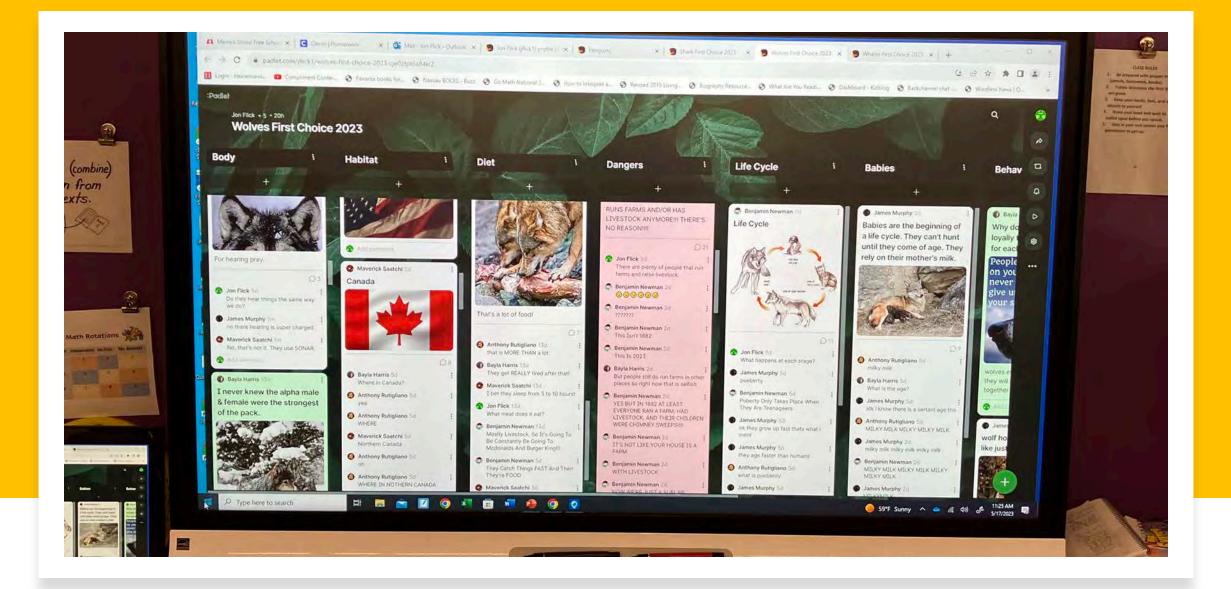
 "Imitations, if they are practiced continually from youth onwards, become estublished as habits and nature, in body and sounds and in thought." "Melodies immitating the sounds and acomts of men couraceous in the face of dangir and those suitatic to praceful men are "Thoughts and beliets instilled in children stick with them withi they are older. This also goes with things they've been told about themselves, things they witnessed etc. "This quote again puts a label on how people should and should not act. 		dians' education is a moral in nature may the blind acceptance s & behaviors' "noble partie	While being set in "morality" they are making their education immoral by not letting people experience knowledge in full. It may keep them docile but it does not gualify as educating them.	Pictograd Open Kod
forbidden."		carefully crafted ens and purses will r children's soul	This is still true, we use stories to teach kids right & wrong through stories.	The second
• Socrates sais that arcful crafting of tales is important be they are the most effective method of educating of educating	102-105 Million	m between music \$ stics is important"	While Socartes meant this in a completely different uses schools use this idea of balance in education to help students learn.	And La
guardians' souls!" can go home and tell their parents and start a whole situation. As well as, making sure the		n allows our eyes to good allows our intellect to Konow"	Explaining it like this causes goestions and exploration to be a facet of education. This is a good usay to look at it but it's not exactly how learning workes. (I think).	A gr
into given out to kids is politically correct.		der, the image of poickly evokes the poickly evokes the poickly evokes the poickly evokes the le lies, and it is evident we excation is meant a prisoners	Socrates used critical times to morph his two ideas off education in aperfect world together & made his explaination better & more thought out.	1 Martin Com Et

We must retrieve to remember.

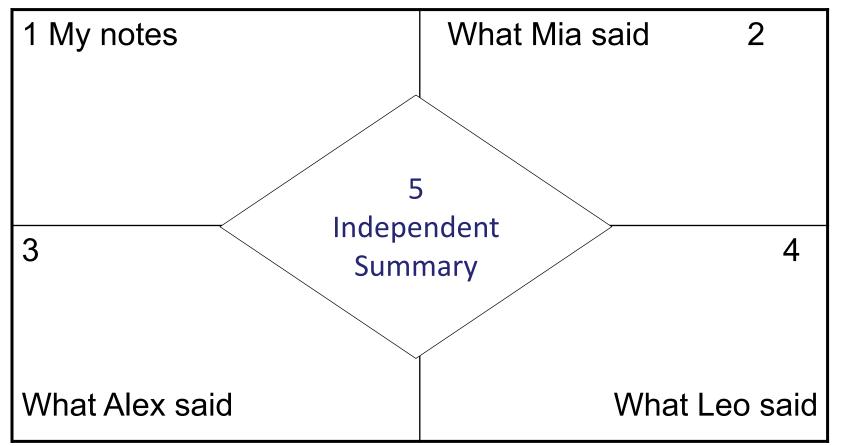
Outlining and Summarizing

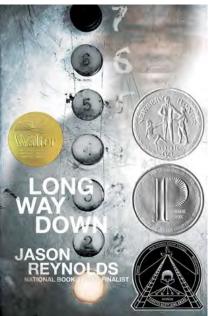






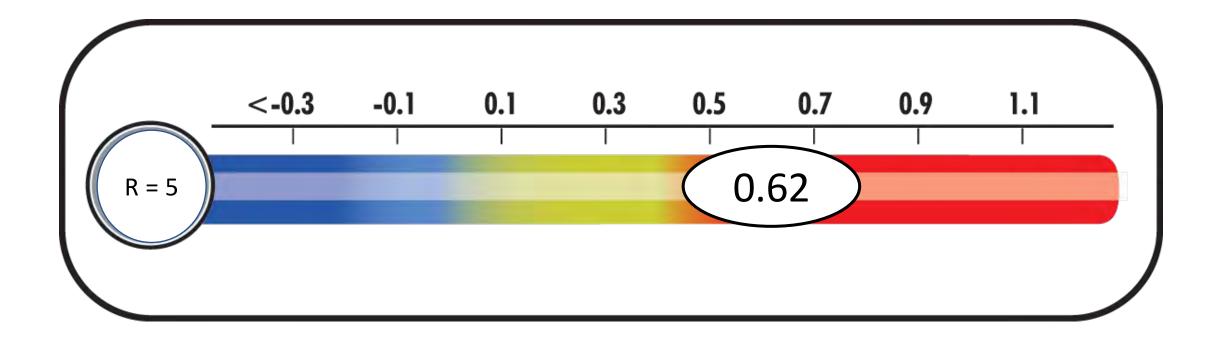
Symbolism in Long Way Down

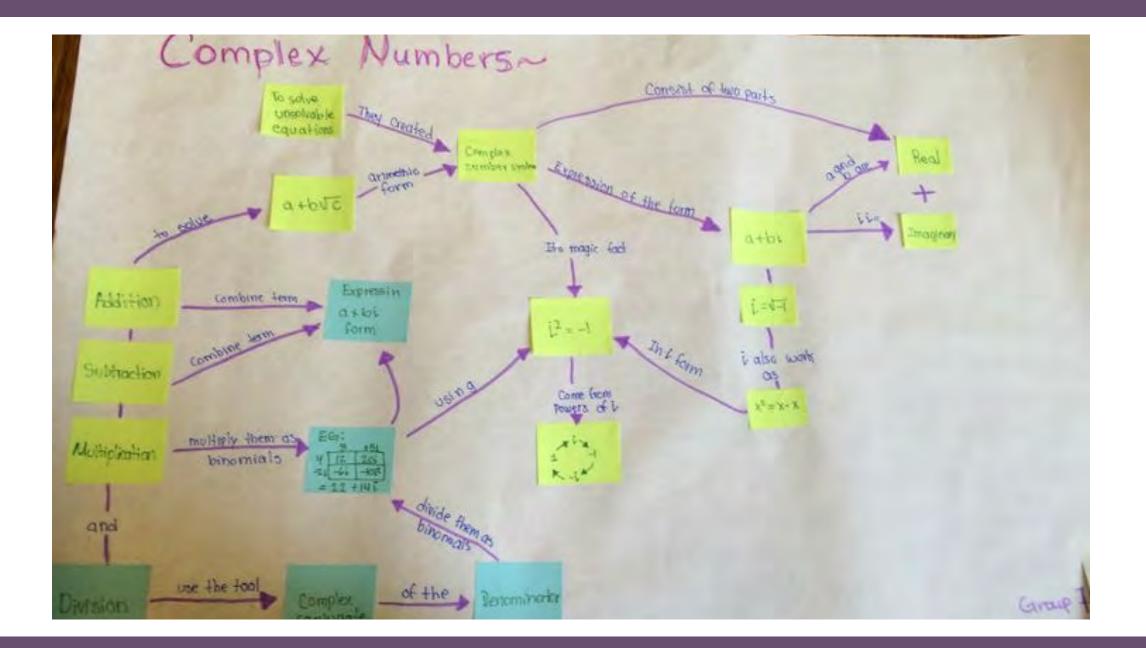


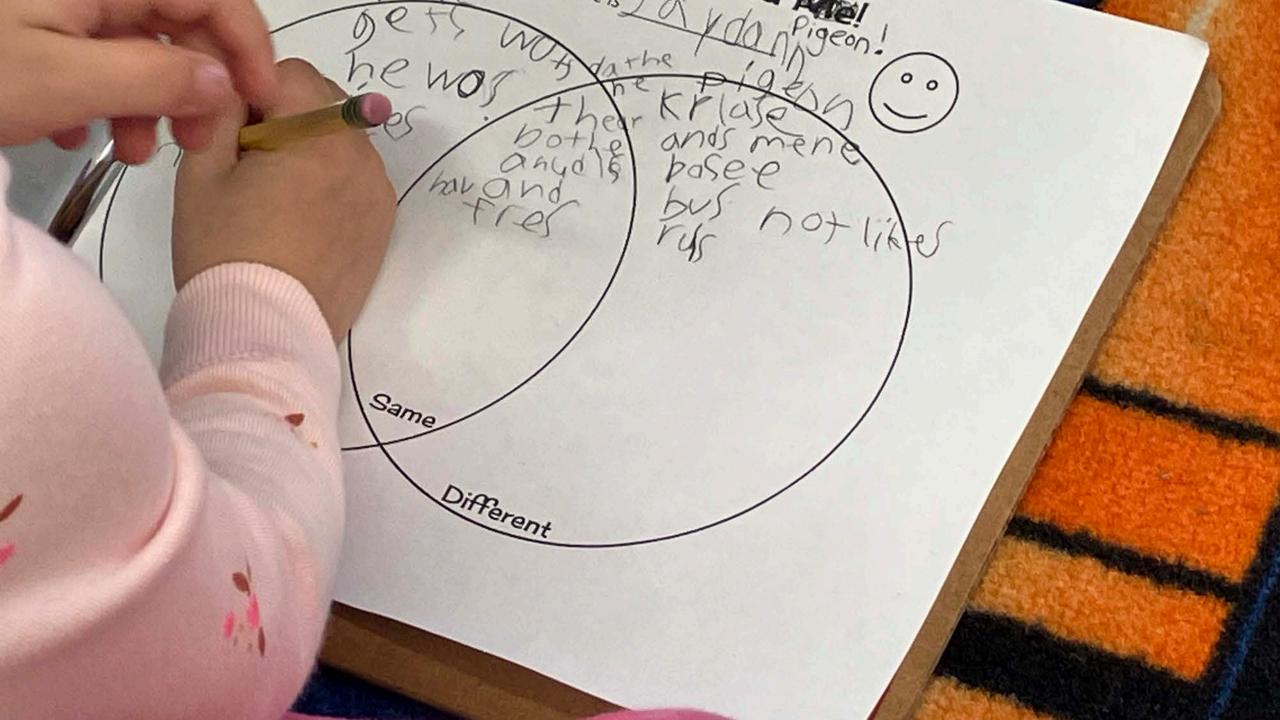


Too much, too fast, it won't last.



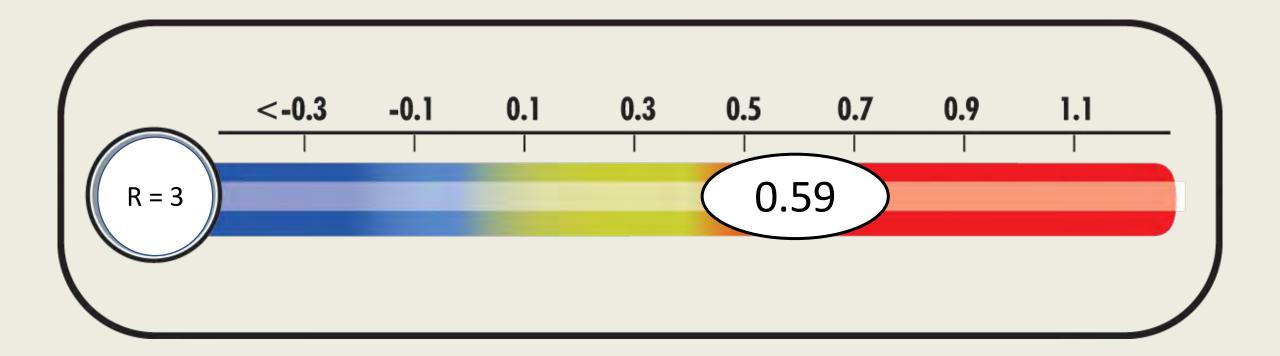




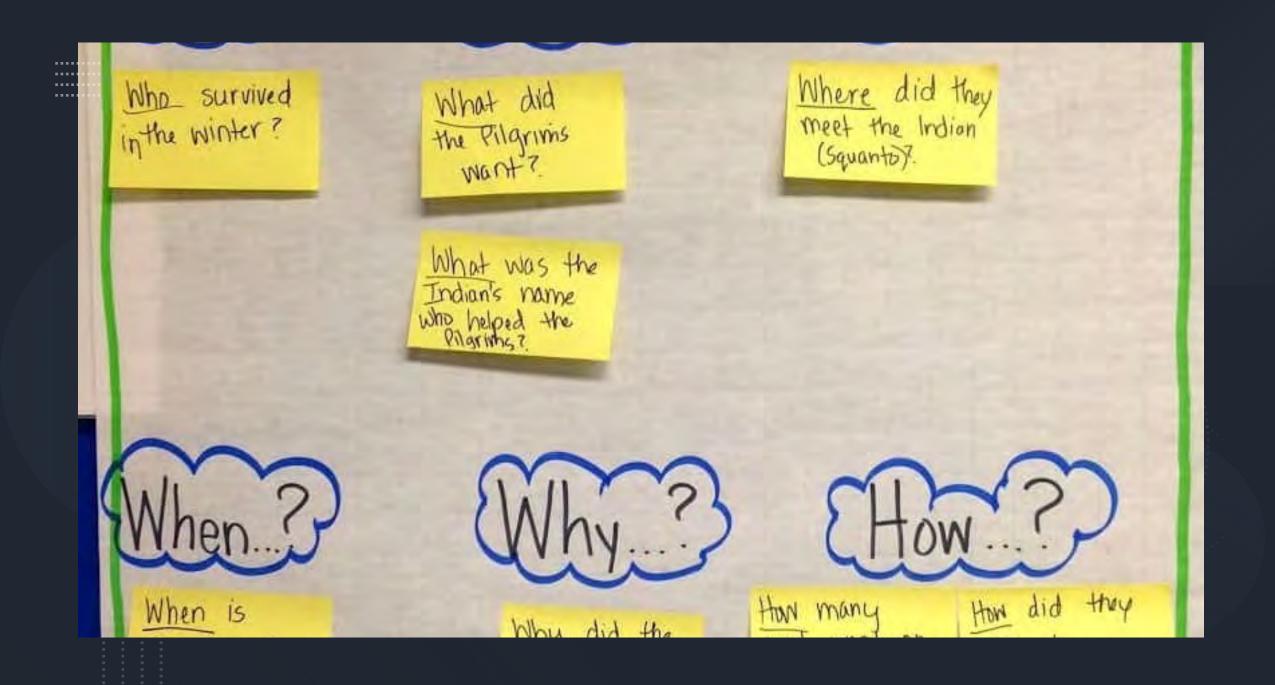


Learning is hard and takes time.

Elaborative Interrogation



Why do we ask questions? * To help us learn. ets? generate QUESTIONS * To get to know somebody. Reasons to ask questions! · if you are curious about something * To Learn more. · if you want to predict what will happen * To help us adapt. "if you want to make something. Clear * To help when I'm stuck (Problem) at are my questions? BEFORE Reading: Thin Reading: Reading: VS Not Deep Answer Right There Jake time, the



Learning Intention: We are learning about oral debate so we can clearly articulate arguments in speaking and writing.

Success Criteria:

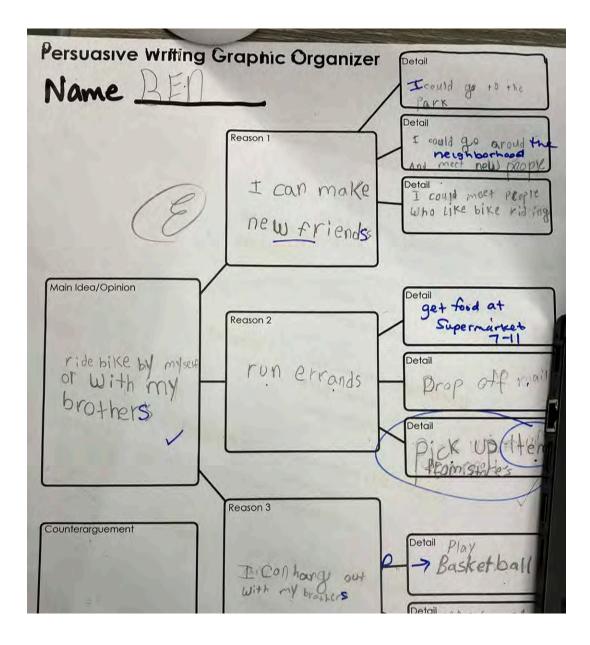
I can...

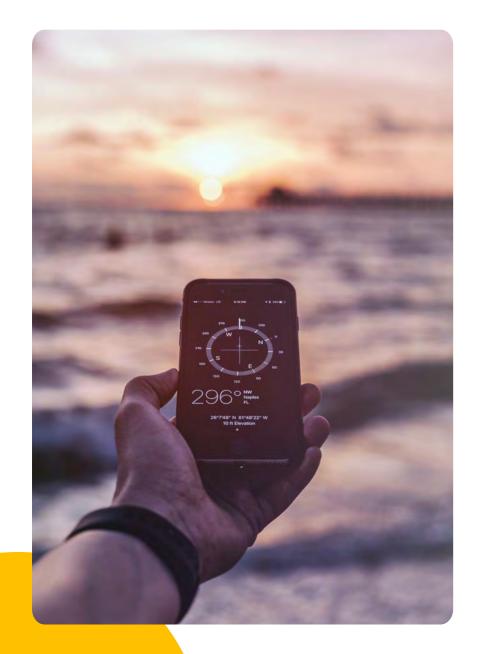
□ <u>Caucus</u> with those who share my position to plan out a claim, reasons, and evidence.

□ <u>State my case</u> in front of my opponent; explain my position with reasons and evidence

Take other people's perspective into account

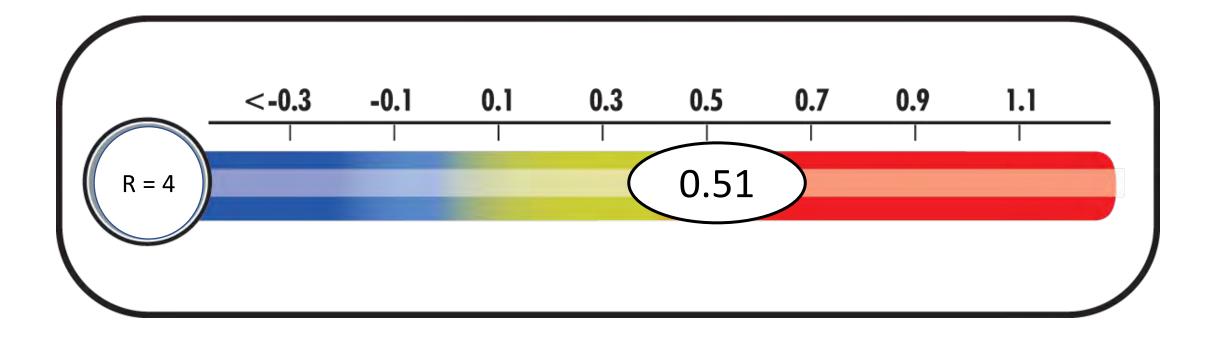
Rebut and give constructive feedback to my peers.



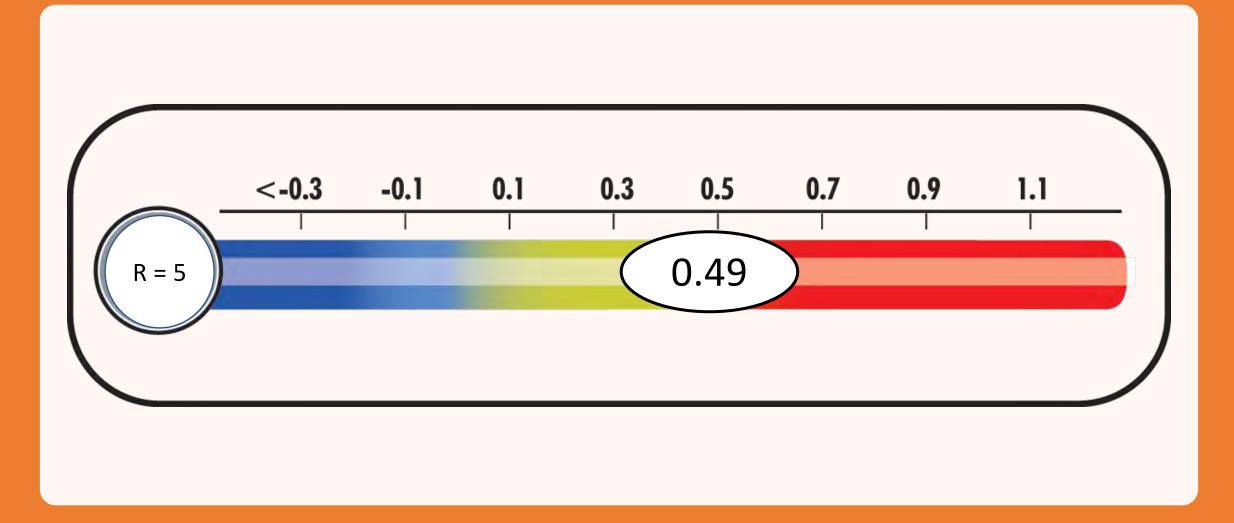


Effective feedback is needed for effective teaching and learning.

Feedback



Practice Testing



Error-analysis of Tests

Correct and Surprised

Correct and Confident

Incorrect and Clueless Incorrect and Confident

Every student deserves a *great* teacher, not by chance, but by **design**.



- Can I explain what works best in teaching and learning?
- Can I list the characteristics of an assessment-capable visible learner?
- Can I identify key findings from the science of learning?