Executive Function Skillsin School

Dr. Laurie Faith
OISE/University of Toronto
October 2025



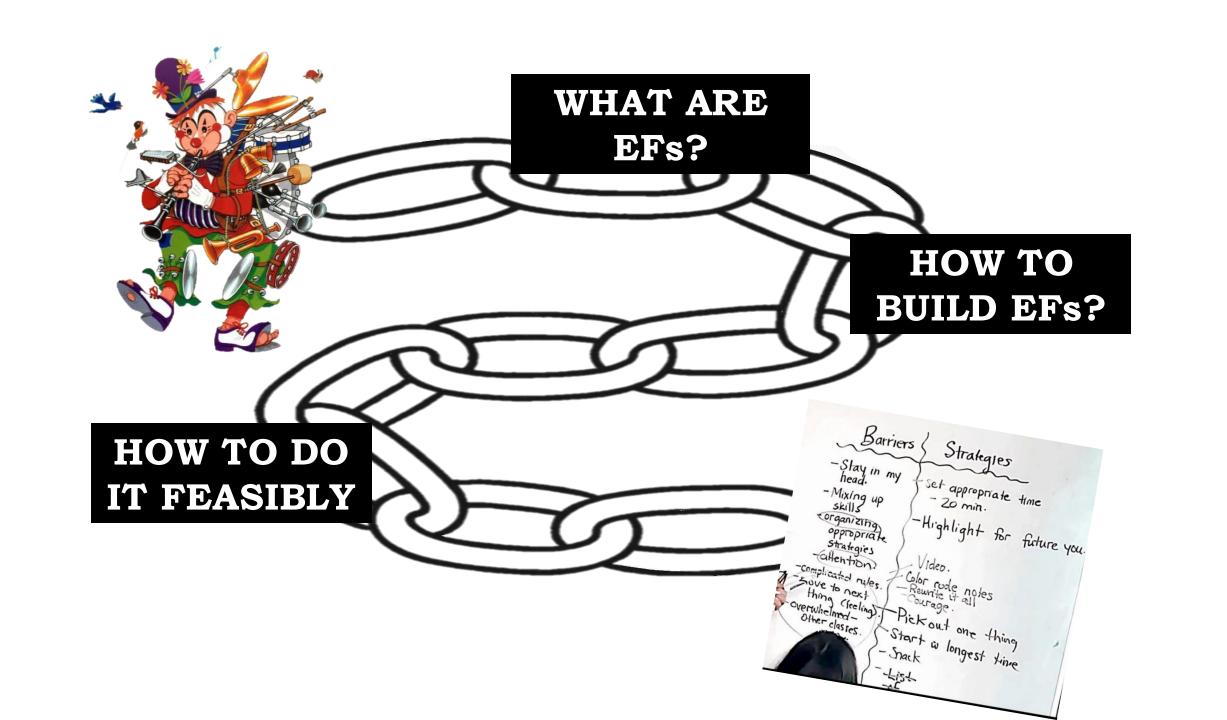




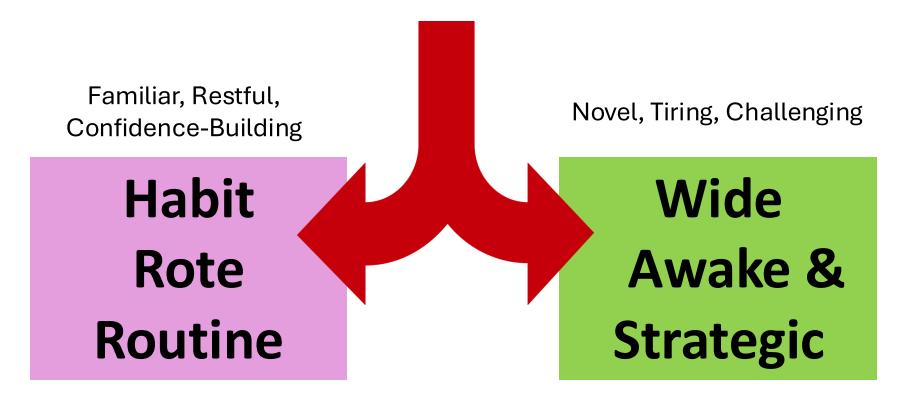




What is your goal for today?



Goals at School





Being wide awake and strategic challenges EFs

Response Inhibition
Working Memory
Flexibility



Emotional Control
Sustained Attention
Task Initiation
Planning and Prioritizing
Organizing
Time Management
Goal-Directed Persistence
Metacognition

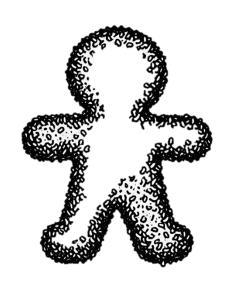
Response Inhibition and Cognitive Flexibility



Stroop Test

6

What is working memory?







What is short term memory?

The three core EFs work together

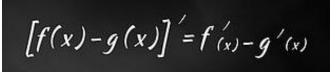












Flexibility
Working Memory
Inhibition



Have you ever seen a person without EFs?



Flexibility
Working Memory
Inhibition

Your Core EFs

Working Memory

I can remember a number backwards (35721).

I can talk and dial a phone at the same time.

Cognitive Flexibility

I can change my mind easily.

I can go with the flow when things change.

Inhibitory Control

I don't get distracted by my phone.

If we disagree, I can just stop thinking about it and let it go.







Strong executive → function

Wide
Awake &
Strategic

academic success
healthy relationships
mental and physical health
appropriate social engagement
healthy boundaries
safe choices



Visu-Petra, L., Cheie, L., Benga, O., & Miclea, M. (2011). Cognitive control goes to school: The impact of executive functions on academic performance. Procedia - Social and Behavioral Sciences, 11, 240-244. Blair, C., & Razza, R. P. (2007). Relating effortful control, executive function, and false belief understanding to emerging math and literacy ability in kindergarten. Child Development, 78(2), 647-663; Duckworth, A. L., & Seligman, M. E. P. (2005). Self-discipline outdoes IQ in predicting academic performance of adolescents. Psychos. Journal of Ecological Science, 16(2), 939–944; Gioia, G. A., & Isquith, P. K. (2004). Ecological assessment of executive function in traumatic brain injury. Developmental Neuropsychology, 25, 135-158; Ozonoff, S., & Jensen, J. (1999). Brief report: Specific executive function profiles in three neurodevelopmental alicohol exposure affects frontal-striatal BOLD response during inhibitory control. Alcoholism, Clinical and Experimental Research, 3(18), 1415-1424; Elliott, R. (2007). Prenatal alcohol exposure affects frontal-striatal BOLD response during inhibitory control. Alcoholism, Clinical and Experimental Research, 3(18), 1415-1424; Elliott, R. (2007). Prenatal alcohol exposure affects frontal-striatal BOLD response during inhibitory control. Alcoholism, Clinical and Experimental Research, 3(18), 1415-1424; Elliott, R. (2007). Nonverbal learning disabilities and executive function: the challenges of effective assessment and teaching. In L. Meltzer (Ed.), Executive Theory Theory Theory Theory Theory Practice for Practice for Practice function in glass and executive functioning play a role? Psychology in the Schools, 54(8), 837-851; Swing, E. L., & Resing, W. C. M. (2017). Dynamic testing of gifted and average-ability children's analogy problem solving: Does executive functioning play a role? Psychology in the Schools, 54(8), 837-851; Swing, E. L., A., A. (2010). A., A. (2010). A.

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How to Help a Student Build Strong EFs?

Challenge

 Challenges that require deep focus, self-control & responsiveness.



+ Nurture

Nurture the spirit

- Genuine delight, engagement, purpose.
- Choice, authenticity, agency.
- Encouragement, empathy, understanding, presence, respect.
- Rest, calming, safety, sleep, nutrition, exercise, health.

+ Scaffold to ZPD

Reduce cognitive load

- Help to understand, anticipate, and prepare for the future task.
- Reduce some EF demands
 - Visual supports.
 - Models, examples
 - Reminders & check-ins.
 - Assistive tech
 - Other accommodations
- Balance with routine tasks

Each has the potential to build EFs or NOT

- Making dinner
- Basketball practice
- Doing homework
- Cleaning the kitchen
- Helping to take care of siblings
- Expensive summer camp
- Discussing how your day went
- Involvement in cultural activities

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Choose one and think of how it may or may not happen in a nurturing scaffolded way.



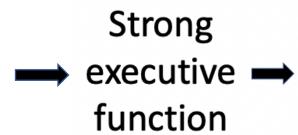
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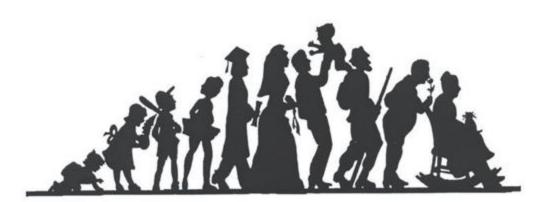
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Wide Awake & Strategic academic success
healthy relationships
mental and physical health
appropriate social engagement
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safe choices



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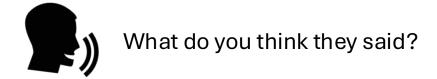
Most goals at school are GREAT opportunities for challenge...

(If we nurture and scaffold).

Goal Study effectively for the functions test.



The Barriers & Strategies Protocol



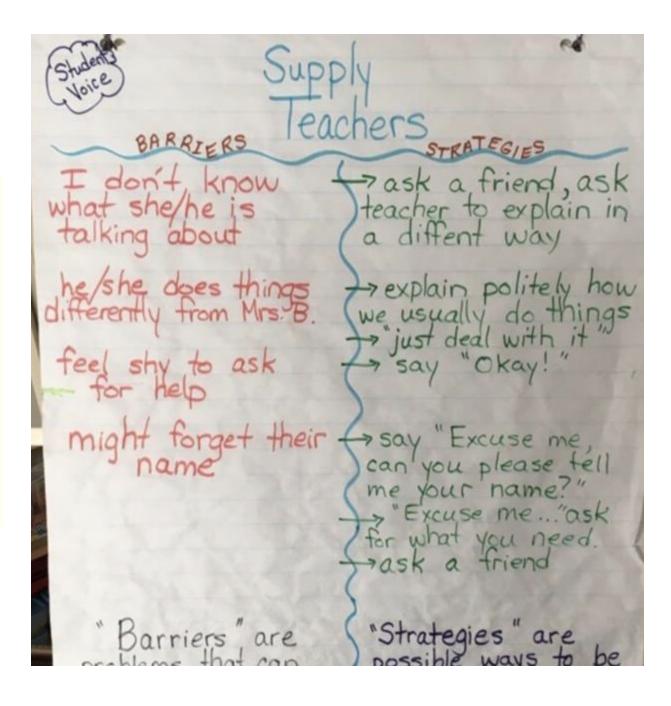
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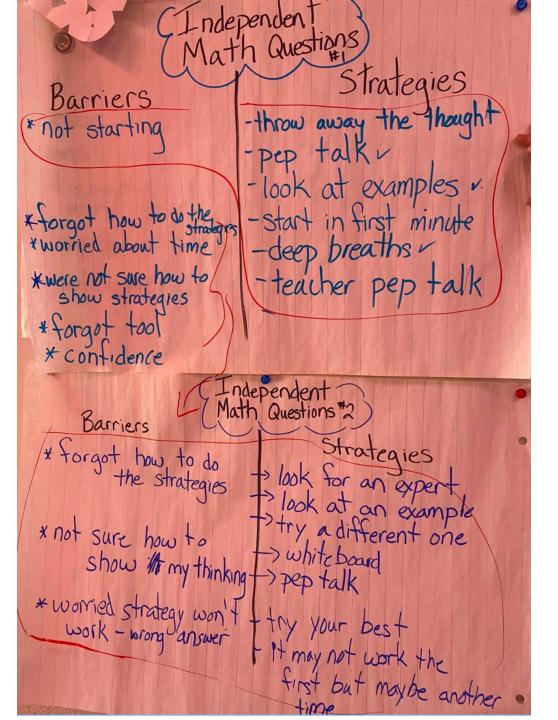
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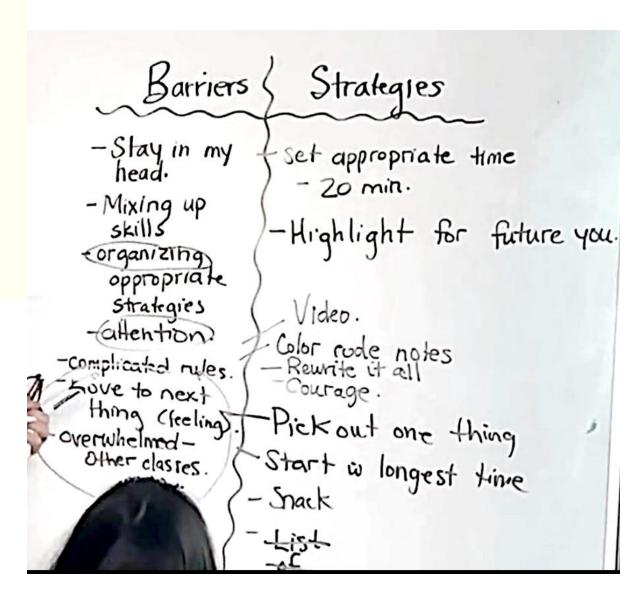
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Do you think the BSP was a scaffolded and nurturing way to practice?



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Table 3.4.	The BSP an	d Hattie's	"visible	learning'

Teaching factor	Effect size	How it relates to the BSP	
Cognitive task analysis (CTA)	1.29	Research shows that helping a learner to analyze the cognitive skills, steps, and approaches required to accomplish a difficult thinking task helps them to succeed. Within the BSP, students work together to examine problems and generate lists of possible skills, steps, and approaches. The BSP is collaborative CTA.	
Transfer strategies	0.86	The BSP incorporates problem monitoring at a high frequency, during regular whole-class conversations. This contributes to students' familiarity with different types of problems and the solutions they tend to prefer; it supports their ability to quickly devise appropriate strategies or transfer ones that were previously used.	
Class discussion	0.82	Within the BSP, teachers regularly gather all students together to respond to two prompts: "What are our barriers to this task?" and "What strategies can we use to be successful?"	
Planning and prediction/self- judgment and reflection	0.75/0.75	The BSP asks students to predict barriers and plan strategies in a group setting on a regular basis. This allows individuals within the group to steadily notice and reflect upon what is unique about their own challenges and preferred strategies.	
Focus on problem-solving/metacognition	0.67/0.58	The BSP integrates metacognition into the fabric of everyday problem solving. Again and again, over many short BSP interactions, students are scaffolded into the habit of monitoring problems for barriers and experimenting with creative strategies.	
Feedback	0.64	The BSP helps students identify important process steps (strategies) for any task. Teachers (and students themselves) may then easily recognize and provide formative feedback on these steps because they have been co-constructed and are very clear to both teacher and student.	
Cooperative vs. individualistic learning	0.55	The BSP takes place during a group conversation in which students work together to actively consider and support other perspectives and ways of learning.	
Teacher–student relationship	0.48	The BSP creates a regular opportunity for teachers to express interest in and make connections with students. During a BSP, teachers find out about students' experiences, thoughts, feelings, and good ideas, which builds a strong relationship.	

Using effect sizes and definitions that are adapted from www.visiblelearningmetax.com (2018). When reading effect size, remember that, generally, 0.5 is a medium effect and 0.8 is large.

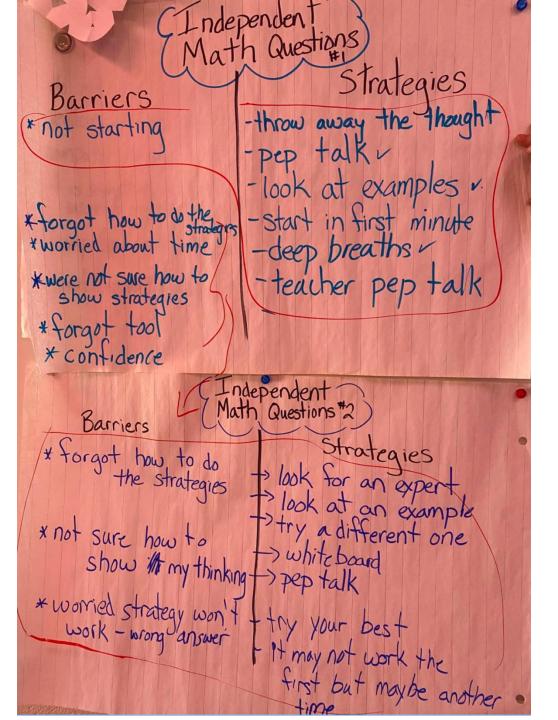
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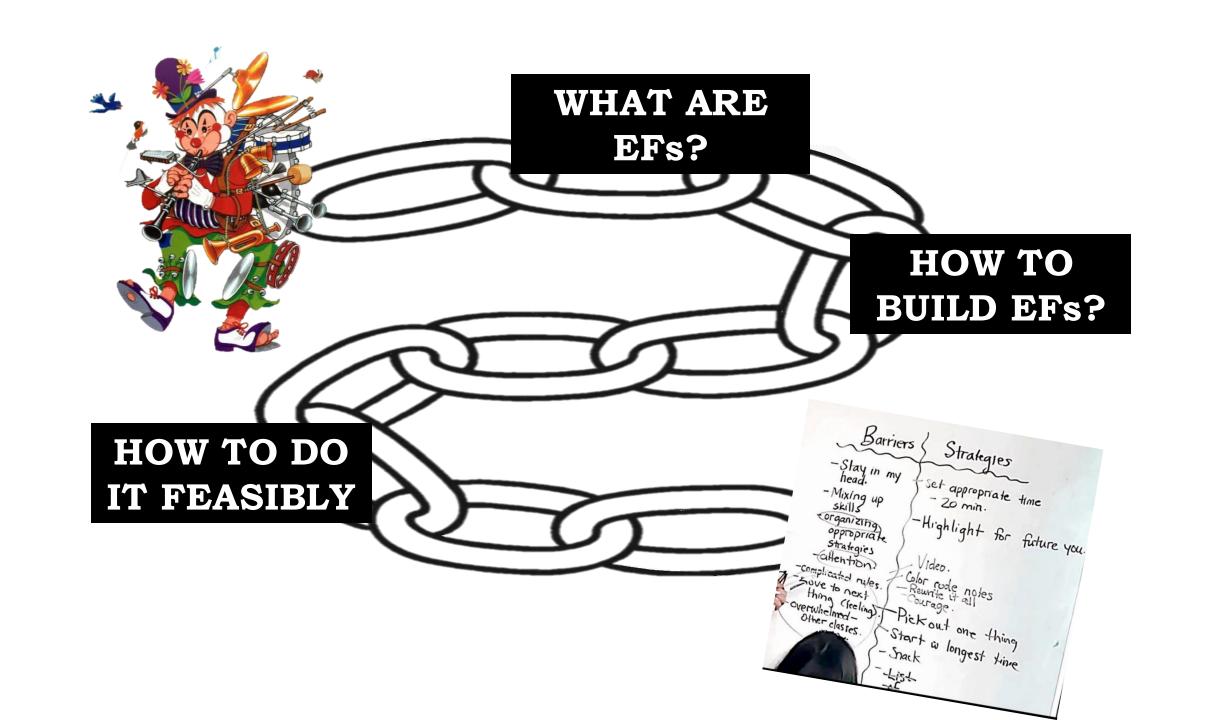
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The Missing Link: How Empathy and Clarity Can Unlock Metacognition

Dr. Laurie Faith
OISE/University of Toronto
July 2025

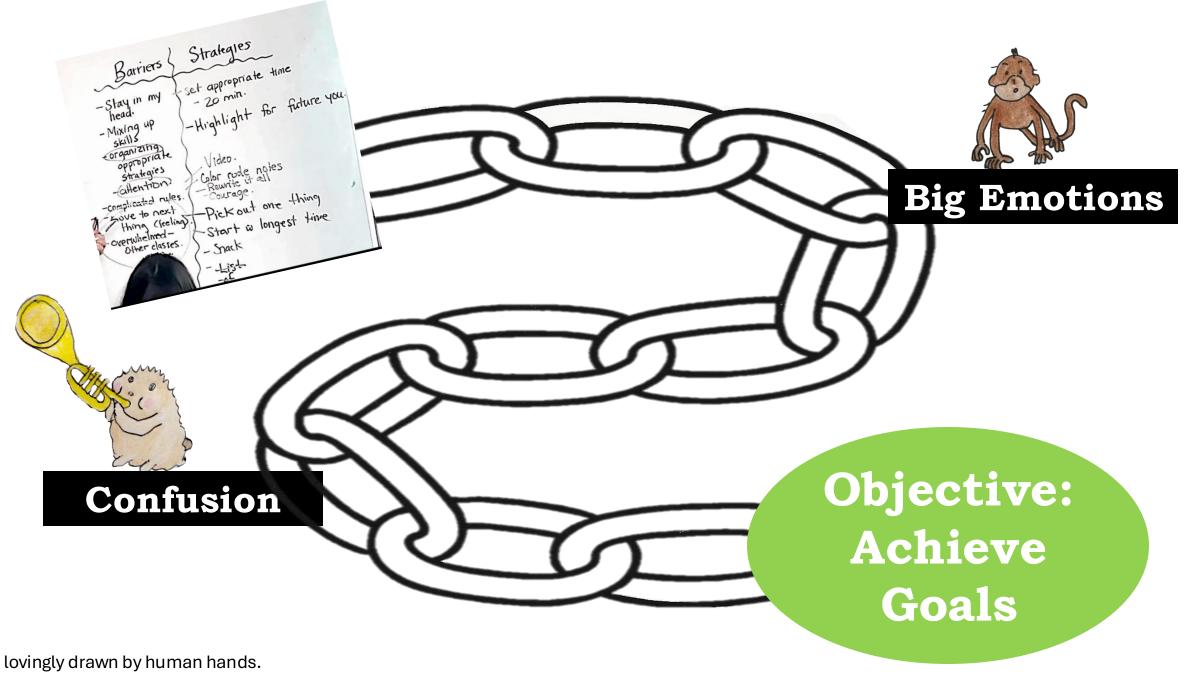






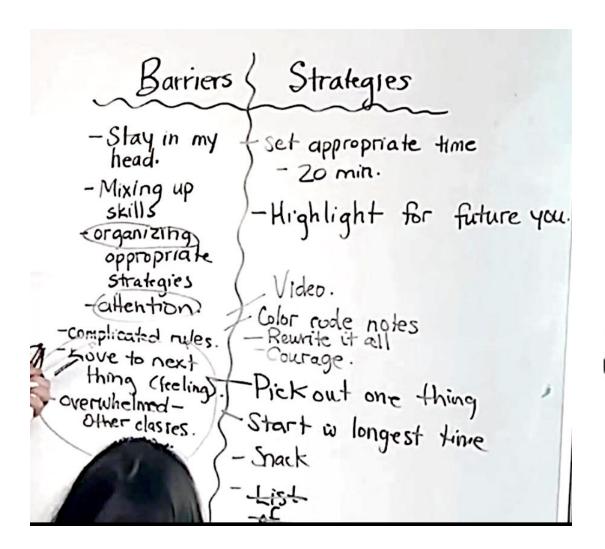


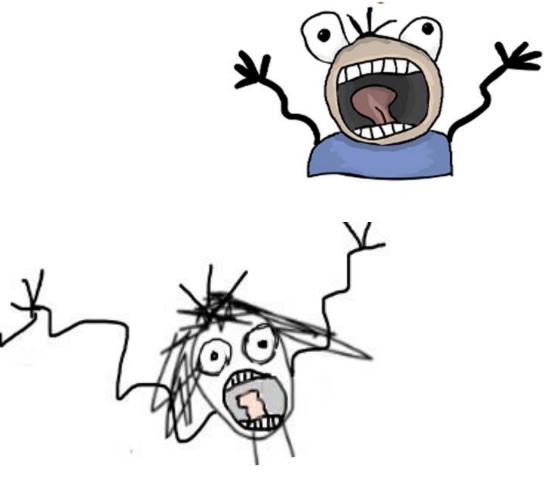




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What if we get big emotions?

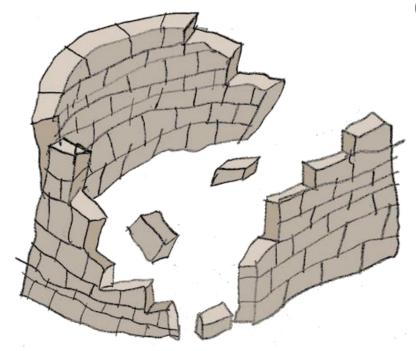




Behaviors Derail Trust

Behavior

- Aggressive
- Unhelpful
- Defensive
- Avoidant
- Rude



Emotions Create Connection

Emotion

- Angry
- Discouraged
- Lonely or Frightened
- Overwhelmed
- Panicked

How to Regulate Emotion

Modify Situation Redirect Attention Shift Appraisal



Modulate Response

Emotion Validation

Receive emotions without trying to change, suppress, reappraise, and without control attempts.

Help to normalize the experience.

Express empathy.

Emotion Invalidation

Overreaction, rejection, criticism, and neglect.

Convey to the individual that his or her experiences are inaccurate, misunderstood, or inappropriate.

Validation V. Invalidation

- Reduces stress, pain, anxiety, and depression.
- Leads to better mood/feelings.
- Promote further disclosure.
- Improves emotion regulation skills.
- Increases learning and motivation.
- Increases trust of self and others.

VS

- Reduces trust in self and others
- Leads to worse mood/feelings.
- Can lead to aggression.

Hayes, S. C., Strosahl, K. D., and Wilson, K. G. (1999). Acceptance and Commitment Therapy: An Experiential Approach to Behavior Change. New York, NY: Guilford Press.

Lynch, T. R., Chapman, A. L., Rosenthal, M. Z., Kuo, J. R., & Linehan, M. M. (2006). Journal of Clinical Psychology.

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Herr, N. R., Jones, A. C., Cohn, D. M., & Weber, D. M. (2015). The impact of validation and invalidation on aggression in individuals with emotion regulation difficulties. Personality Disorders: Theory, Research, and Treatment, 6(4), 310-314. doi:http://dx.doi.org/10.1037/per0000129

How to Do Validation



- Use body language to show that you are listening.
- Respond to mood and energy level.
- Repeat words to check understanding and to help elaboration of feelings.
- Acknowledge personal history and how it may contribute.

How to Say Validating Things



- "I can see how you would feel that way"
- "Of course that feeling makes sense"
- "Knowing how hard x is for you, I can see why you feel this way!"
- "That must be really hard"
- "That sounds so (frustrating)"
- "Tell me more about that"

3 schools 46 teachers one scenario one survey

Create distance between student and class / themselves

48%

Remove to the hall – 25% Suggest student goes for a break – 32%

Teacher ignore (13%), deploy EA (P26), or focus on others (P40)

Think about student's anger differently

"might have had a rough start to the day." (P15)

"maybe be coming from a rough home life." (P7)

Teacher directs class's attention away from angry student

"Get the class settled first." (P7)

"Move on with [whole class] activity" (P11)
"Get the class settled working on a task" (P7)

Teacher tries to calm the class

"Calm words, slow movement ... [to] keep my class safe and secure and to ... keep my other students at ease and to model them the best way to interact in a safe way with the student." (P16)

Move student towards less upsetting stimuli.

"If you need some time outside of class." (P19)

"Ask if he/she would like to step into the hall to speak or would like to "take a break" before starting his/her/they day." (P25)

Distract or redirect angry student

"Act positive (P24) or "Try to laugh with them" (P24)

Discuss the Problem

"Discuss what happened with the student and why it took place." (P34)

"therapeutic rapport... finding out what the antecedent is ...

Trying to change his/her mindset." (P31)

Hands off Calming Strategies

"Give the student some time to calm." (P1)

Tell them to do some deep breathing before coming into the class to calm his/her body." (P31)

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Situation					

Modify

Create distance between student and class / themselves

48%

Remove to the hall – 25% Suggest student goes for a break – 32% Move student towards less upsetting stimuli.

"If you need some time outside of class." (P19)

"Ask if he/she would like to step into the hall to speak or would like to "take a break" before starting his/her/they day." (P25)

Manage **Attention** Paid

Teacher ignore (13%), deploy EA (P26), or focus on others (P40) Teacher directs class's attention away from angry student

"Get the class settled first." (P7) "Move on with [whole class] activity" (P11) "Get the class settled working on a task" (P7) Distract or redirect angry student

"Act positive (P24) or "Try to laugh with them" (P24)

Discuss the Problem

"Discuss what happened with the student and why it took place." (P34)

"therapeutic rapport... finding out what the antecedent is ... Trying to change his/her mindset." (P31)

Shift Think about student's anger **Appraisal**

differently "might have had a rough start to the day." (P15)

"maybe be coming from a rough home life." (P7)

Teacher tries to

Hands off Calming Strategies

"Give the student some time to calm." (P1)

tell them to do some deep breathing before coming into the class to calm his/her body." (P31)

Modulate Response

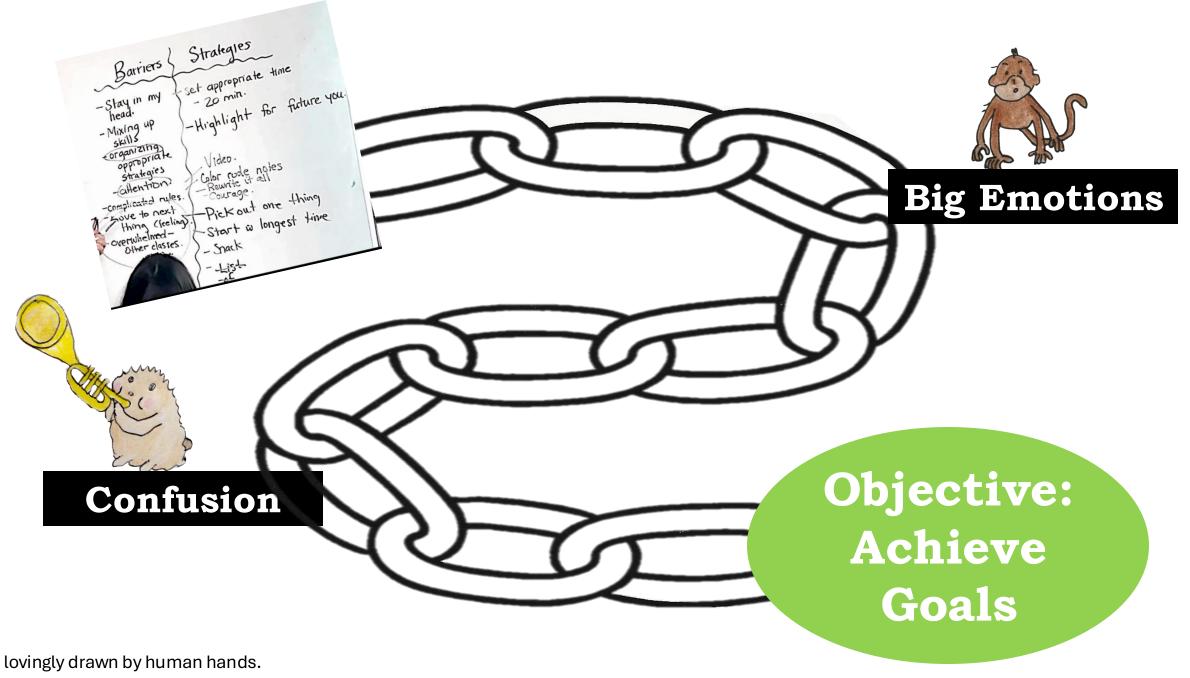
calm the class "Calm words, slow movement ... [to] keep my

class safe and secure and to ... keep my other

students at ease and to model them the best way

to interact in a safe way with the student." (P16)

	Self-Regulation	Class-Regulation	Regulation of Angry Student
Modify Situation	Create distance between student and class / themselves 48% Remove to the hall – 25% Suggest student goes for a break – 32%		Move student towards less upsetting stimuli. "If you need some time outside of class." (P19) "Ask if he/she would like to step into the hall to speak or would like to "take a break" before starting his/her/they day." (P25)
Manage Attention Paid	Teacher ignore (13%), deploy EA (P26), or focus on others (P40)	Teacher directs class's attention away from angry student "Get the class settled first." (P7) "Move on with [whole class] activity" (P11) "Get the class settled working on a task" (P7)	Distract or redirect angry student "Act positive (P24) or "Try to laugh with them" (P24)
Shift Appraisal	Think about student's anger differently "might have had a rough start to the day." (P15) "maybe be coming from a rough home life." (P7)	X	Discuss the Problem "Discuss what happened with the student and why it took place." (P34) "therapeutic rapport finding out what the antecedent is Trying to change his/her mindset." (P31)
Modulate Response	X	Teacher tries to calm the class "Calm words, slow movement [to] keep my class safe and secure and to keep my other students at ease and to model them the best way to interact in a safe way with the student." (P16)	No mention of validation



Art lovingly drawn by human hands. Courtesy of Kay Liang and Katie Healy

Perry's Characteristics of Classrooms that Emphasize Self-Regulated Learning

- Independence and autonomy
- Authentic
- Explicit and co-constructed, flexible, control
- Familiar and predictable
- Self-assessment
- Scaffolding and co-regulation
- Formative, task-specific feedback
- Motivational messages, recognize effort and process
- Sense of belonging, community, respect
- Accommodation, scaffolding and support, differentiation

1 school 3 teachers 2 weeks video, audio, artifacts





Fun and Interesting Tasks



Clear Instructions



Easy-to-Follow Routines



Helpful Reminders



Tust the Right Challenge

-

Your I deas Count



Choose Your Path

check How you're Doing





Feedback that Helps

Talking About Your Learning

Encouragement to Succeed



PAKING CHARGE











Making sure Everyone succeeds

Which "dial" needs to be cranked to make Barriers & Strategies Protocol work?



(...mostly, kinda)

An unfinished book of mostly, kinda true ideas about how kids learn.

Laurie Faith

Introduction

From December 2nd to December 13th, three teachers and their students took part in a research study to try to identify the classroom factors that make group problem solving work better. These teachers self-selected into the study, from a school that itself had self-selected. It became apparent that both the school and the teachers had self-selected because they were capable of taking on more challenge, eager to learn new things, and deeply passionate about education.

This book presents four preliminary theories based on these two weeks of research. We detected several classroom factors that seemed to support the use of a whole-class problem solving approach called 'The Barriers and Strategies Protocol' (see appendix). These factors are part of a larger model, proposed earlier by Canadian researchers Nancy Perry, Simon Lisaingo and colleagues (see appendix). We used Nancy and Simon's work to help guide our search for the specific factors that needed to be turned up to enable whole classes of children to engage in strategic thinking together. We knew that supporting children's strategic was important, and also that teachers very rarely have time to do this one-on-one.

Three teachers and a researcher met every morning for 45 minutes to discuss which of Nancy and Simon's factors to tweak. Then, every day, the teachers rolled out a slightly different version of their lesson and the results were observed. The following day, the results were discussed and more tweaks were planned. The teachers' skillful, rapid iteration of approaches yielded great insight in WEEK 1 of the study.

In WEEK 2, a story like this was used as a tool to elicit student's insights about the theories developed in WEEK 1. We enriched and expanded our story by integrating indepth insight from the children at the center of the study.

Our team: One Ontario school board, three teachers and their students (36 Grade 3-4, 27 Grade 6). The study was designed by Dr. Laurie Faith (UT), Dr. Simon Lisaingo (UBC), and Chris Keane (HPEDSB). Connie Ye (UT) is a research assistant on the project who will also help with analysis.

For more information: Laurie.faith@utoronto.ca Once upon a time, there was a little school. Its students and teachers were kind, helpful, and hardworking.



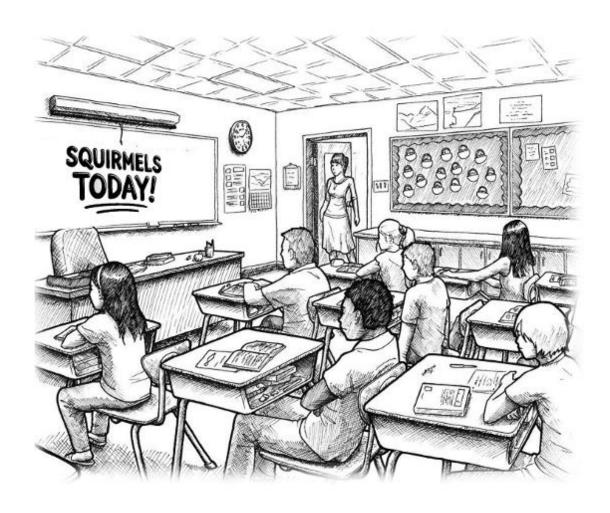
At the school, there were good days and less good days.



Interesting days and less interesting days.



Great days and less great days.



It was a nice, normal school.

Every day, the teachers taught the kids.

Most days, the kids learned!!

Every day, the teachers assigned work.

Some days, the kids did it!!

Some days they did not.

Yeah, no. Some days the learning and the work did not get done.

But, like, not because the kids were bad.

Nobody really thought that.

It was something else.

They were sure of it!

Because the kids were great!
They were funny, brilliant, creative, interested, kind, and caring.

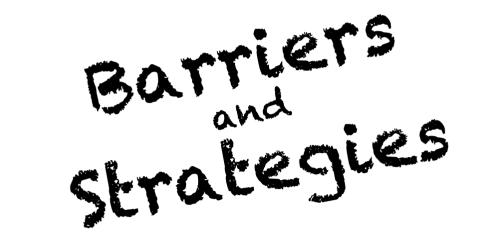
The teachers had two good ideas for how to help:



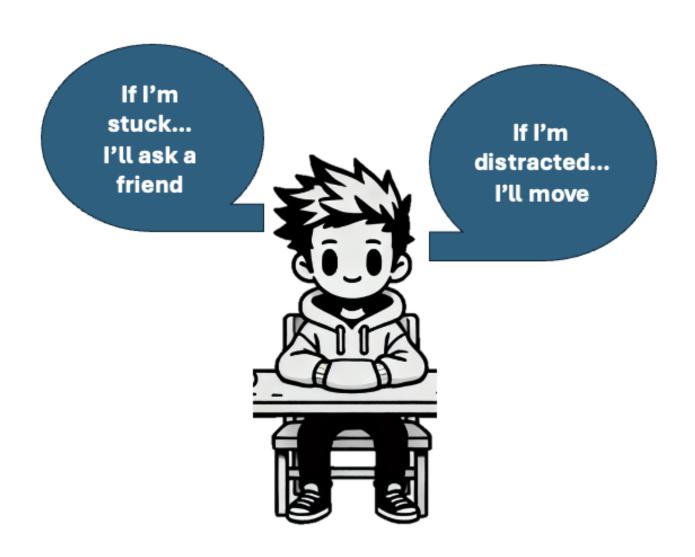


They told the kids that their ideas count!
They told the kids that talking about their learning would help!

When they assigned hard work, they asked the kids to talk about their...



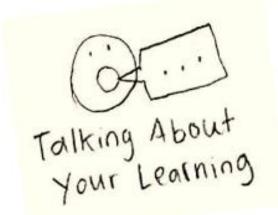
They wanted them to be READY for anything. So, they tried to help them to imagine barriers and plan strategies.



As the kids talked, they got better at school.

Also, the teachers learned a little more
about what they needed.

Their two clever ideas worked! (...mostly, kinda)





Even though these Barriers and Strategies talks *mostly*, *kinda* worked, the teachers wanted to know more. They wanted the kids to be ready for anything, so nothing could stop them.



They wanted the kids to look into the future to see all of the problems, pitfalls, and challenges they might face and figure out how to smash them, like in a video game.

They wanted the kids to win, succeed, and be happy.



They really cared about the kids.

So, every day, the teachers got up in the dark, had a strong coffee, and came to school extra early. They had meetings to try to figure out how to make it easier for kids to have great barriers and strategies conversations.

They loved it.

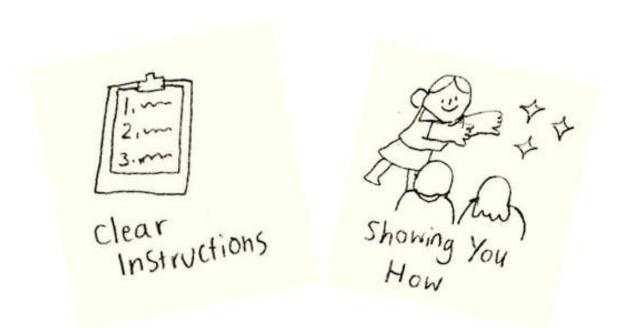


They learned five important things. Which they kinda sorta understood.

But they needed the kids to help really understand those five things.
So get ready to tell part of this story.
It is almost your turn!



Kay. First idea. To predict barriers and figure out strategies, kids need MUCH clearer and simpler instructions than anyone realizes. Kids can't be strategic if they didn't know what the &%\$#@!! they are trying to do.



Ready? Second thing! To have great barriers and strategies conversations, kids liked to do the same sort of activities a few times so they could get in a groove and feel confident. This also helped them to understand the task. The more they felt like confident experts on the task, the more strategic they could be.

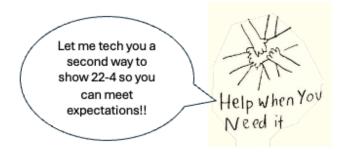


Thirdly, the kids needed the tasks to matter and count – they needed to know if they met expectations or didn't. Otherwise, who cares about being strategic?

They needed to know if they were on the right track.



And then, they needed a little bit of help sometimes.



Fourthly, kids need *smaller* and more specific work. They needed stuff they could actually get done.

Like, because, you know... if the task was impossible to get done, why even try to be strategic?

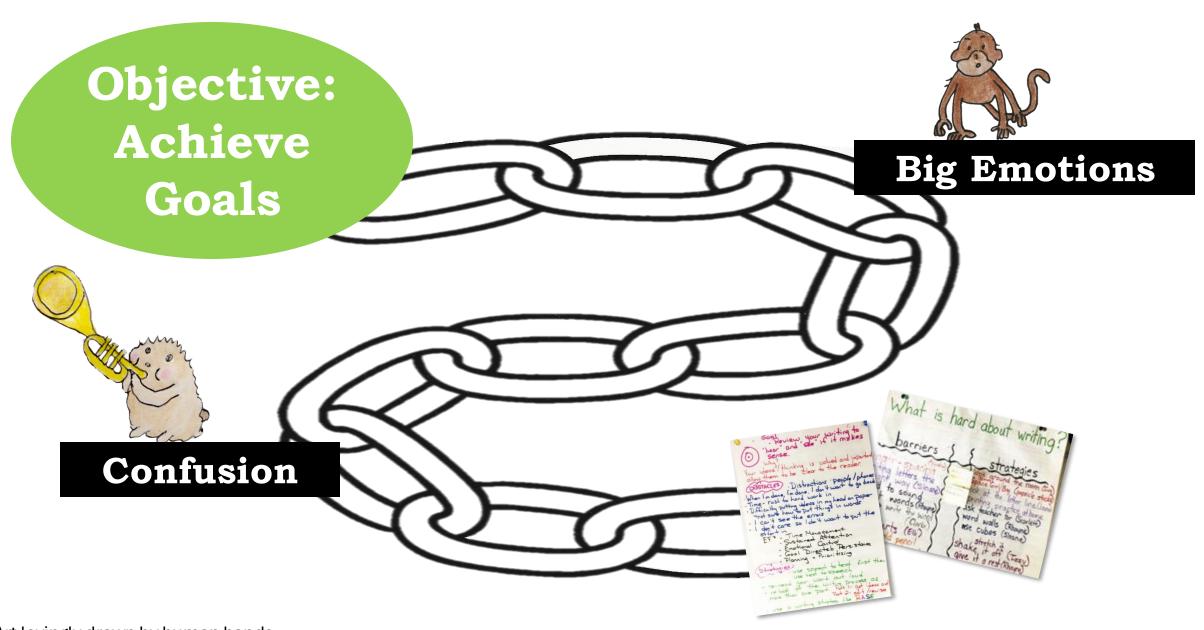
Having a little bit of choice or differentiated options also helped with this.



> WORK PLAN

Date:	Time:	Topic:	
Exactly what n	CIFIC GOAL needs to be handed in a load TODAY? How man h of what exactly?		
	E TO FINISH? nany minutes today?		
	IIS MAKE SEN ? How should be chan		
What will	BARRIERS make this goal hard ve for me or others?	l to	
Whatco	TRATEGIES an we do to overcome arriers and succeed?		
	DO 1	THE WORK	
Thumbs up or do three bins "(Achieved" / "G	L ACHIEVED? own, or hand work in Goal Achieved" / "Goa oal Exceeded" This fee to be loud and clear.	n to one of al Not gedback	
	ne thing we learned fo	for	

This can be projected onto the board every time you do a lesson. It will help ensure your goal is clear, students know when its due, what they'll need to do to succeed, and whether or not they hit the mark.



Art lovingly drawn by human hands. Courtesy of Kay Liang and Katie Healy

Challenge • Challenges that require focus, concentration, timing & responsiveness.

+ Nurture/Honor/Encourage

Ways to nurture/honor/encourage the spirit of the person who is practicing

- Challenges that are genuinely delightful/engaging, authentic, purposeful, and meaningful.
 Challenges that offer some choice, autonomy, and agency.
- Encouragement, empathy, understanding and genuine delight/respect.
- Rest, calming, safety, sleep, nutrition, exercise, health.

+ Scaffold to ZPD

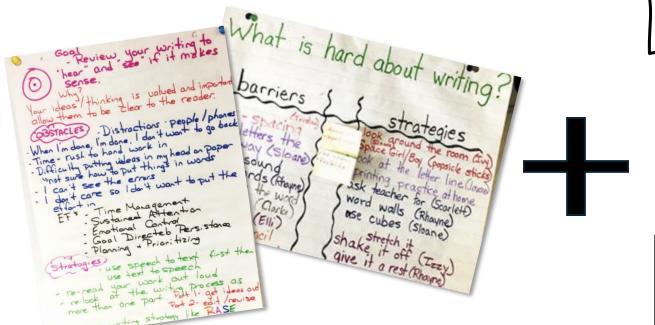
Ways to offload some of the EF (and other) task demands

- Help to understand, anticipate, and prepare for the future task.
- Routines, practice, modeling.
- Visual supports.
- Reminders & check-ins.
- Assistive tech
- Other accommodations

Strong executive =

Wide Awake & Strategic academic success
healthy relationships
mental and physical health
appropriate social engagement
healthy boundaries
safe choices





Inclusive Practices...



Skills for handling emotion

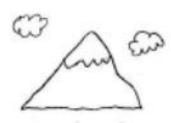
Skills for promoting clarity



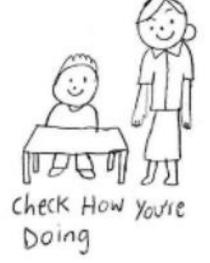








Just the Right Challenge



These factors were transformed for discussion by children based on resources created by Perry, N. E., Lisaingo, S., Yee, N., Parent, N., Wan, X., & Muis, K. (2020a). Collaborating with teachers to design and implement assessments for self-regulated learning in the context of authentic classroom writing tasks. Assessment in Education: Principles, Policy & Practice, 27(4), 416-443. Drawn by Kay Liang (2024).

STAYING ON TRACK

公公

Fun and Interesting Tasks



Clear



Easy-to-Follow Routines



Helpful Reminders

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Teamwork in Learning Only

Celebrate your Wins



These factors were transformed for discussion by children based on resources created by Perry, N. E., Lisaingo, S., Yee, N., Parent, N., Wan, X., & Muis, K. (2020a). Collaborating with teachers to design and implement assessments for self-regulated learning in the context of authentic classroom writing tasks. Assessment in Education: Principles, Policy & Practice, 27(4), 416-443. Drawn by Kay Liang (2024).

Goal

Complete 6 math questions independently by 11:45.

What happens?



Mental
Contrasting with
Implementation
Intentions
(MCII)



Barriers and Strategies Protocol





PRACTICE MAKES PROGRESS

We do 10 minutes of problem solving together because practise is how we build skill.



OPEN TO LEARN

Your teacher is curious, respectful, excited to help you practise, and delighted by your ideas,



7 W

WE'RE HERE TOGETHER

Your teacher and classmates are supposed to listen, learn, help each other, and get better together.



EMPATHY AND KINDNESS

This is a group process. We focus on kindness,

compassion, and understanding.



READY FOR GROWTH

These problem-solving skills will help you tackle new ! challenges and become more powerful in school, at home, and with friends.



What is this?

The Barriers and Strategies Protocol asks students to very quickly transform their understanding of the power dynamics in a classroom. This form was developed to support teachers' work in communicating the culture and values behind the BSP. We think it is most useful for older students, who may have very entrenched beliefs about their role in the classroom.