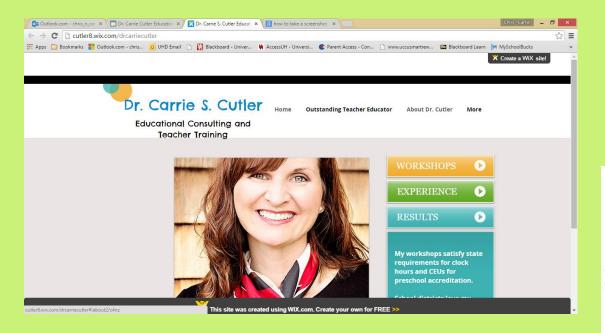


#### A Very Little Bit About Me

# UNIVERSITY of HOUSTON











#### Agenda

- 1. What is the growth mindset?
- 2. Why do parents need a growth mindset about mathematics?
- 3. Strategies for passing the growth mindset on to families.

## What's Your Mindset? —Jot your response on a sticky note.

Do you...

- a)Strongly Agree
- b) Agree
- c) Neutral (not sure)
- d) Disagree
- e)Strongly Disagree

You can learn new things, but you can't change your basic intelligence.

#### What's Your Mindset?



Do you...

- a)Strongly Agree
- b) Agree
- c) Neutral (not sure)
- d) Disagree
- e)Strongly Disagree

When you make a mistake, it means you're not smart.





Do you...

- a)Strongly Agree
- b) Agree
- c) Neutral (not sure)
- d) Disagree
- e)Strongly Disagree

Intelligence is a fixed trait something you're born with.





Do you...

- a)Strongly Agree
- b) Agree
- c) Neutral (not sure)
- d) Disagree
- e)Strongly Disagree

If you have to try, it must means you're not very good at something.

#### What's Your Mindset?



Do you...

- a)Strongly Agree
- b) Agree
- c) Neutral (not sure)
- d) Disagree
- e)Strongly Disagree

Math is one of those things you have to be born good at.

#### If you answered mostly...

A or B, you may have a fixed mindset.

D or E, you may have a growth mindset.



## Belief about Intelligence

O Intelligence is a malleable trait.

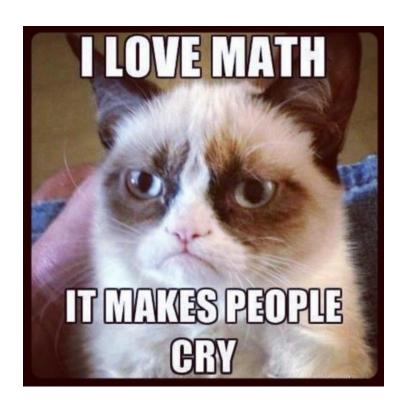


• Carol Dweck—Stanford Psychologist

#### Why does mindset matter?

- 1. Children's beliefs about their own intelligence have a significant impact on their
  - omotivation,
  - effort, and
  - Oapproach to mistakes and challenges.
- 2. Those who believe their abilities are malleable are more likely to
  - Oembrace challenges and
  - Opersist despite failure.



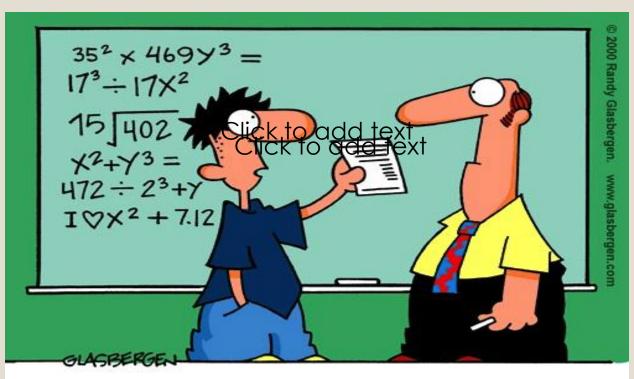


## Parents— Bless their Hearts

Sometimes say to their kids...

- Don't worry, honey. I was never very good at math either.
- You inherited my good looks and bad math skills.
- You're naturally good at reading but struggle with math, don't you?

## Many, many people believe mathematical ability is inherited.



"I HAD MY DOCTOR DO A D.N.A. BLOOD ANALYSIS. AS I SUSPECTED, I'M MISSING THE MATH GENE."



Research shows familial influence on learning is formidable and enduring.

### Reasons Familial Mindsets Matter

## Children Emulate Parents/Siblings' Attitudes

With Guidance, Mindsets Can Be Changed

A Person with a Growth Mindset is a Lot more Fun to Be Around During Homework!



# A Growing Body of Research...

- There is no such things as a math gene or a math brain.
- Everyone can learn math to a high level with adequate support and superior effort.

--Jo Boaler



# HOW DO WE HELP PARENTS UNDERSTAND THIS?



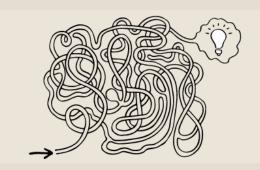


#### Activity 1: Moving Along the Malleability Line

- Imagine a line extending the length of the room. This is our continuum of malleability. How malleable do you think certain traits are?
  - MOVE LEFT—NOT Malleable
  - MOVE RIGHT—Malleable
- There are no right or wrong answers. The goal is to explore your own beliefs and see how others think. No commenting on others' position unless you're invited to do so.

--source: www.perts.net

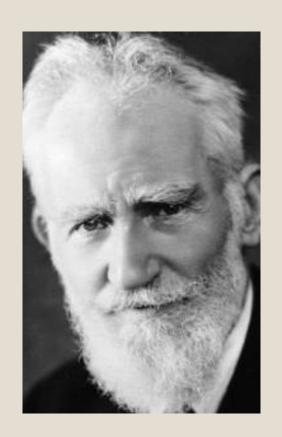
#### Activity 2: Brain Growing Game



- 1. Stand in circle.
- 2. Start a web by describing math in your day, "I use math when I figure the unit price of peanut butter." Hold the end of the yarn and throw the ball to someone across from you.
- 3. Repeat until a web is formed.
- 4. Each person represents a brain cell (neuron). The string represents pathways, or synapses. By engaging in mathematical processes, we grow our brains and build pathways.
- 5. Ask someone to tell a challenge in math. Give multiple strategies, repeatedly tossing ball of yarn between you to show how multiple experiences make connections thicker and stronger.

#### Celebrate Mistakes

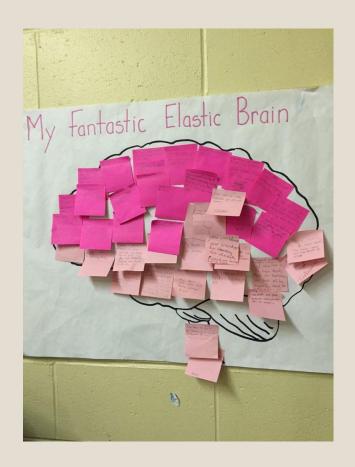
"A life spent making mistakes is not only more honorable but more useful than a life spent doing nothing."



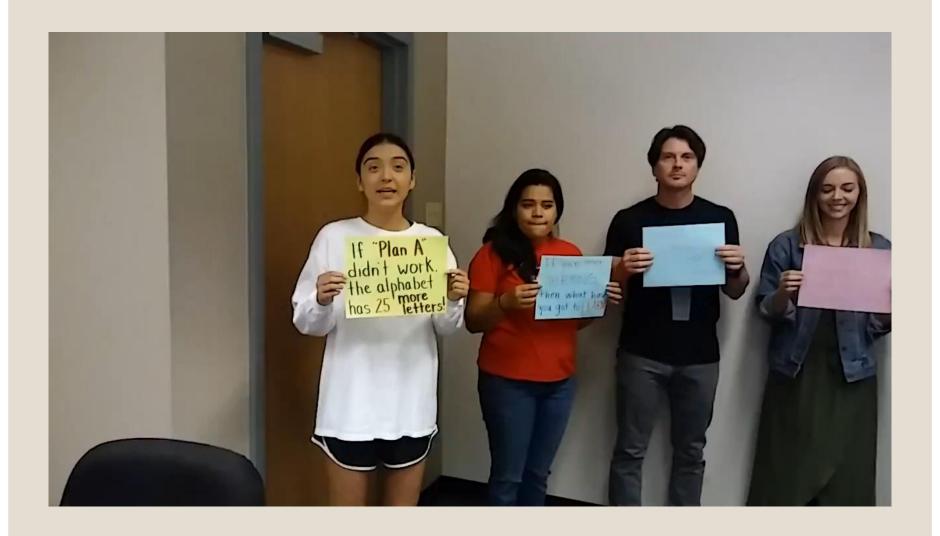
George Bernard Shaw

# Activity 3: Wall of Mistakes

 Families use sticky notes to celebrate mistakes.



#### Activity 4: Growth Mindset Quotes





# Activity 5: Growth Mindset Memes

- Free apps
- Families use their photos on their phones
- Post the memes on school social media
- Email to teacher to print out and display













#### Growth Mindset Corner

- Beliefs to Actions
- Language
- Websites to learn more
- 4. How we showed the growth mindset in school this week.



News and Notes from Mrs. Wilson's Classroom For the Week of august 6-11.



Reading:

We have been starting up our reading yorkshop and taking about picking "Just Right" books.

Malh

Place Value - Writing numbers in standard word, and expanded form.

Language: We will be starting up our writing Workshop this week!

SOCIOISLUAICS: WE ARE REVIEWING MAPPING

skills and getting ready to icam all about Arizona.

SCIENCE: We have begun our unit on ant needs and adaptations



#### D**aces** co Remember

The in the Court of Meeting Tonight at 4:00 in the Library - come join us! " CUTTICUIUM NIGHT Th. AUG. 8 - GPM

we started using our planners this week. These will need to be signed and returned to SChOOL DAILY.



#### OCDER REDDOCERS

Any unfinished classwork needs to be completed daily and returned to school. Look for any items circled in red in the Planner.



Thank you all so very much for your generous back-toschool donations! we are pretty well stocked up for the first part of the year. I truly appreciate all of your contributions.

#### The following supplies are needed in our classroom

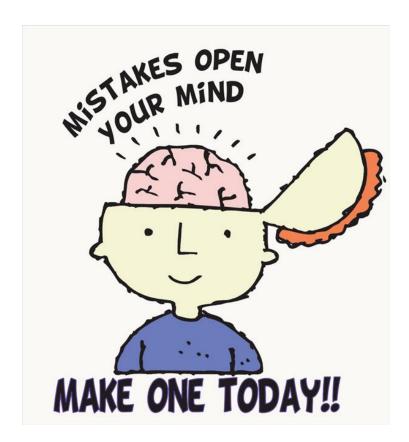
" Old Magazines that we can cut up

## Beliefs & Attitudes



#### Growth Mindset Beliefs → Actions

Transform your inner dialogue from, "Ugh, I hate math homework. It's so hard to know how to help my child" to "Hey, with time and effort I can improve in helping my child with his math homework. I can see that he is starting to catch on, and so am I."



## Growth Mindset Beliefs → Actions

- How do you react when you make a mistake? Do you model a growth mindset response?
- This week make an effort to celebrate mistakes and how they make your brain grow.



# Growth Mindset Beliefs → Actions

- Instead of saying...
  - I'm really not good at making crepes.
- · Say...
  - I guess I better keep practicing before I apply for the chef position at Chez Cutler.
- Your kids are listening!



# Growth Mindset Beliefs → Actions

- Celebrate efforts not just results
- Recognize "sticking to it" during a difficult task
- 3. Reinforce patient problem solving
- 4. Reward optimism during math homework

Growth
Mindset
Corner:
Encouraging
Comments
for
Homework
Time

That took a lot of work. I bet you feel proud you stuck with it.

I like how you kept trying even when it was tough.

I've noticed you're getting better at staying positive during homework.

Growth
Mindset
Corner:
Encouraging
Questions for
Homework
Time

Can you show me how you worked the problems you missed?

Which of these problems was the most challenging?

How do you feel about your work?

# How we showed the Growth Mindset at school this week...

Highlight patient problem solving, sticking to it (grit), optimism, and effort.

 Marytsa showed patient problem solving to complete multi-step problems in math. When she made errors, she tried a new strategy drawing a diagram.

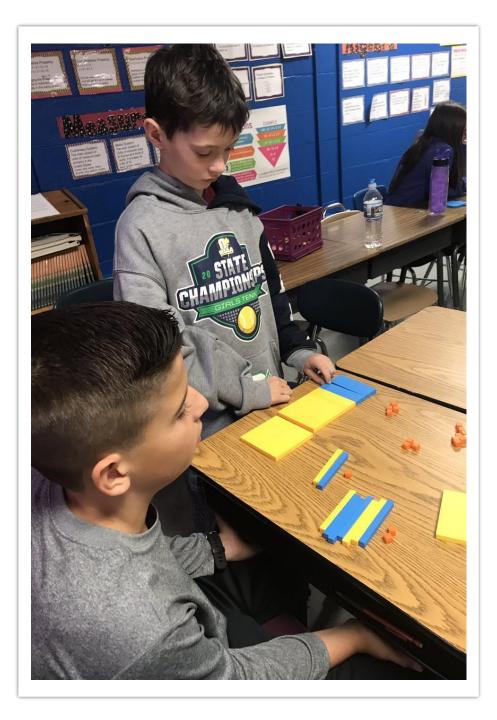
 Tip: Use children's names. This will get parents to READ the newsletter.



# Our Growth Mindsets

 Reese, Jill, Selena, and Walter didn't get angry when their block tower fell over. They just said, "Oh, well" and started building again.





# Our Growth Mindsets

 Stephen and Hussein built models for multiplication problems using base ten blocks. Even though it took a lot of time, they were able to explain what happens when we multiply by demonstrating their model to the class.

# Growth MindsetOriented Parent Conferences

#### Data

- Effort
- Reactions to challenge & mistakes
- Progress & processes over products

#### Reflection

 Include students' self evaluations about their effort and persistence

#### Goal Setting

- Challenging oneself not competing against others
- Emphasize progress

# At Home Activities

- Website Explorations
- Book Bags
- Mistake Wall





# Websites to Explore as a Family

- Adorable and powerful Youtube video by Class Dojo and Carol Dweck's Stanford research group on growth mindset.
- Google it!

# Websites to Explore as a Family

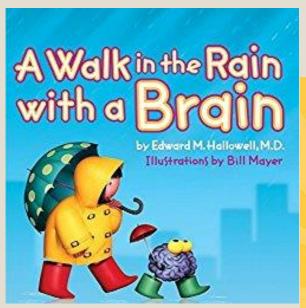


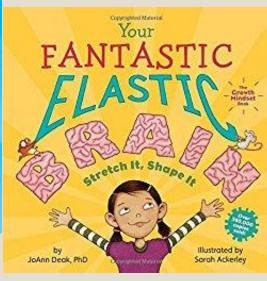
- Video clips of growth mindset and grit in popular children's shows and movies
  - https://www.youtube.com/watch?v=0Q6a r D85X0
- Sesame Street does Growth Mindset
  - https://www.youtube.com/watch?v=SnrHZ\_u vtxk
  - https://www.youtube.com/watch?v=XLeUvZ vuvAs&feature=youtu.be
- Proctor and Gamble 2014 Olympic
   Games Thank You Mom Ad
  - https://youtu.be/zsZ5yOlmHQQ

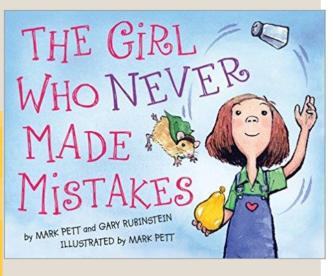


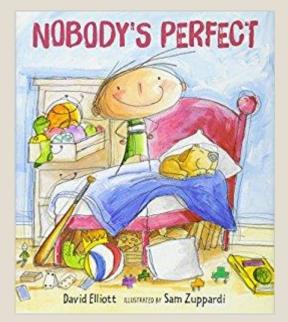
# Take-Home Book Bags

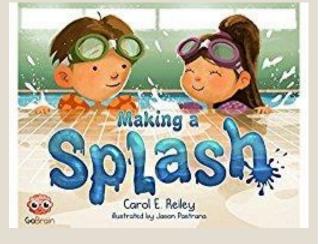
- Children take a comfortable leadership role in the family activity (Newkirk, 2012). As they interact with their family members, children can pass on growth mindset knowledge to family.
- Especially effective when book characters are representative of family culture.



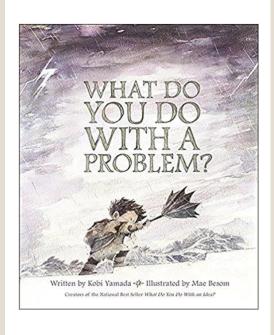


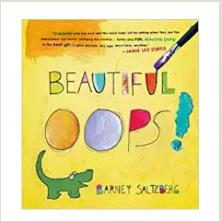


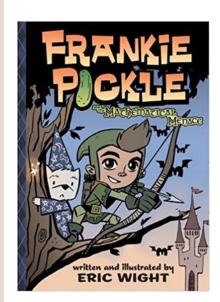




Books about the brain and mindset!





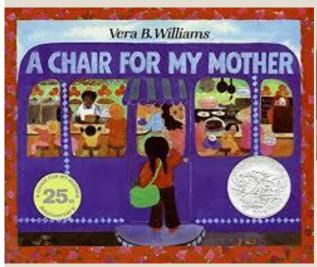


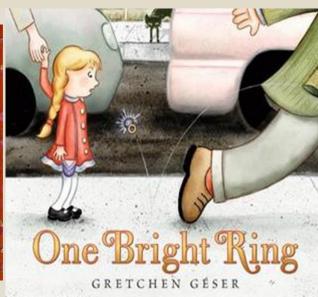


# More Growth Mindset Titles to Love

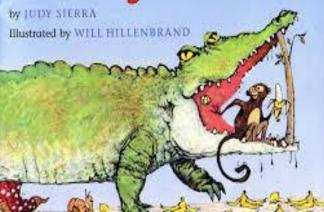
# I Brought Some Bags for You!

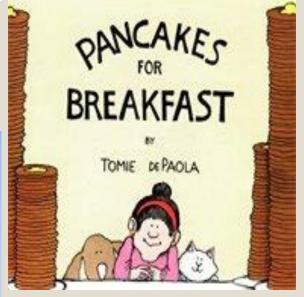




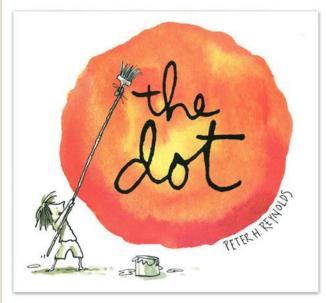


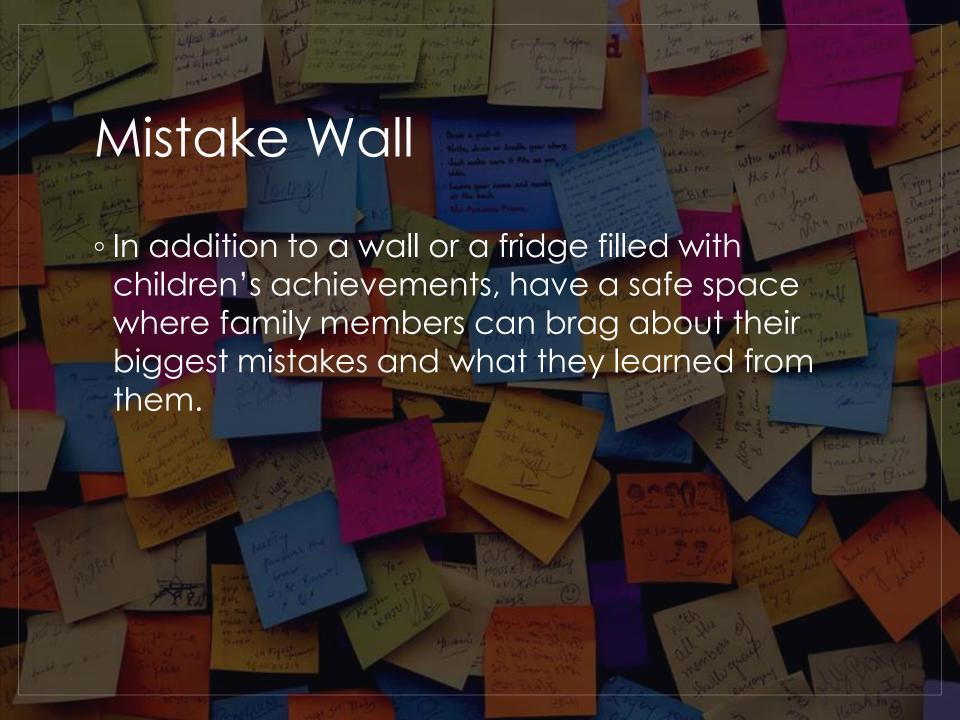






Let's try some out!





### Have a Growth Mindset for Parents, too!

- Olt's okay for parents to be somewhere along a growth mindset continuum.
- Olf parents aren't all the way there, continue to nurture their growth mindset by being positive, encouraging, and supportive.



# Thank You For Coming

Dr. Carrie S. Cutler

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www.carriecutler.com

 Email me if you try these ideas, and I will do my happy dance!

