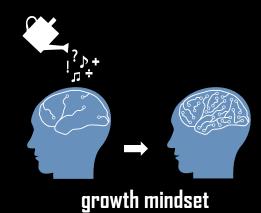
## Fostering A Growth Mindset

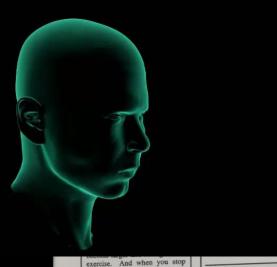
Emily Diehl Director of Professional Learning and Curriculum Design, Mindset Works ediehl@mindsetworks.com Mathematics Leadership Summit 2016











exercise. And when you stop exercising, the muscles shrink and you get weaker. That's why people say "Use it or lose it!

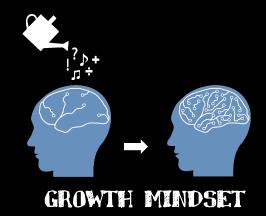
Inside the cortex of the brain are billions of tiny nerve cells, called

ce

cnow

think on is r life. le--it have





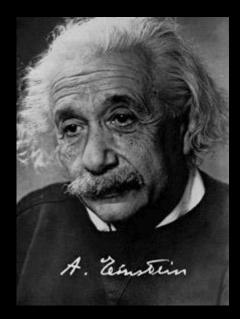
do I look smart? effort is for the incapable I'm no longer interested

how can I learn?

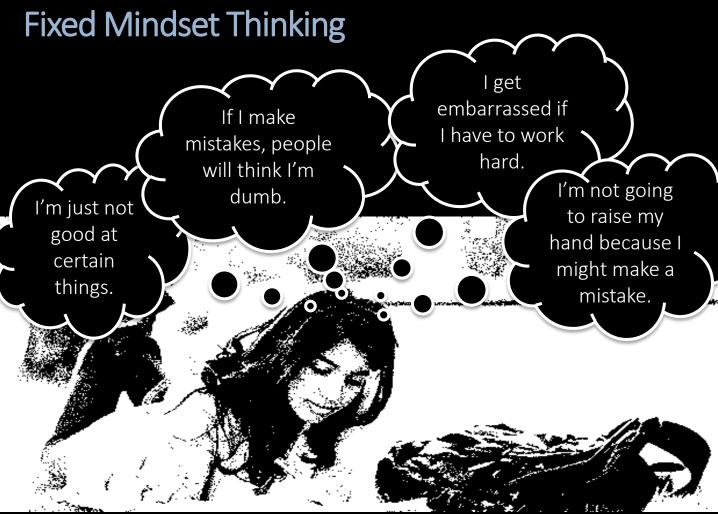
effort makes me smarter

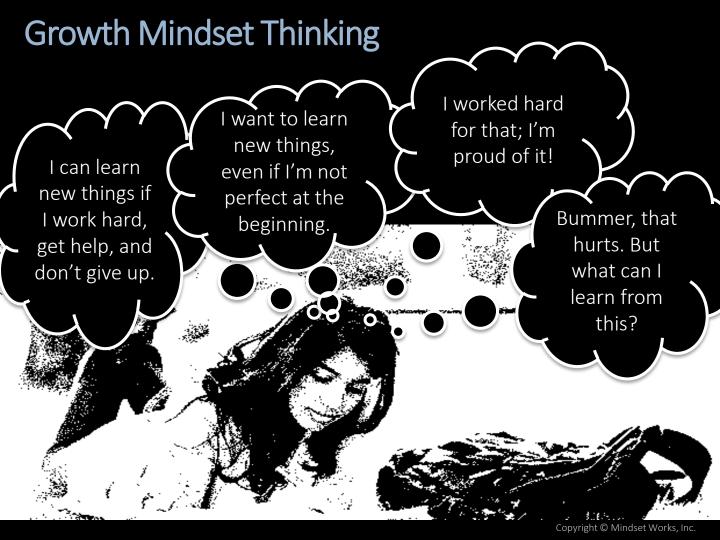
I will persevere

## Example Growth Mindset in Action



## *"It's not that I'm so smart, it's just that I stay with the problem longer."*





# In your own words, what does growth mindset mean?

## Student Response to Challenge

# Elsie took an honors class and it was harder than she thought.

#### Abilities are fixed

#### Abilities are malleable



I'm in way over my head. I'm incapable. I don't belong in here.

#### Or

This was not my fault, "name' shouldn't have put me in here.

#### Or

There's no point in learning this anyway.

Where am I going wrong?

What do other kids know that I don't yet?

 $\checkmark$ 

What can I learn from my peers and how do I use what I learned to improve?

How do you fee When you make WhenI make mistakes mistakes! I feel embarresed -christen When I make mistakes it makes me feel dumb When I mak mistokes I feel embarrased When I make Mistakes I feel anyry When I make a mistake it make me feel Like I did a bad thing When I make a mistake I get arrownervous. When I make a mistake i get mad !!!!!!!!! When I make a mistake its ok because not time ill try harder. I feel plike I work to get that might I feel like I want to go hide in my (0 om 1) 11 111 that I dignt study enachy. T-feel When I make a misrohe & tool wild'll I feel good and left from Mistake I feal raly ambarest some may hen I mack a mistage I fell I to very upset. Scared When I make a mistaker I feel mad and upset and dumb when I make a mistake itee Andrarose I feel emerced - this I that next I will to have

## Fixed Mindset – What Triggers It?

## Trigger #1: Stepping Out Of Your Comfort Zone

#### **Fixed Mindset**

### Look smart at all costs

#### Growth Mindset

## • Take on the challenge to learn

## Trigger #2: High Effort

#### Fixed Mindset

## It should come naturally

#### Growth Mindset

## Hard work is key to improve

## Trigger #3: Set Backs

#### Fixed Mindset

 I'm incapable or ashamed (or: It wasn't me) (hide mistakes and deficiencies)

#### Growth Mindset

• I can learn from this & overcome (confront mistakes and deficiencies)

## Trigger #4: Transitions



#### • I must look smart (hide deficiencies)



• Others can help me learn (this group is focused on improvement)

#### Relationships

#### Sports

#### College

# When has a fixed mindset about yourself held you back? What effect did it have on you?

**Child-rearing** 

#### • •

#### Math



Musie

Technology

## How Mindsets Can Form



"If we win because we are a winner then when we lose it must make us a loser." - Josh Waitzkin

Mueller, C. M. & Dweck, C. S. (1998). Intelligence praise can undermine motivation and performance. *Journal of Personality and Social Psychology*, *75*, 33-52.

#### General Encouragement

- If at first you don't succeed, try again!
- This might be a tough problem, but we know you can do it!
- Set your goals high, and don't stop until you get there!



## Not encouraging statements...

## ...opportunities to grow.

## *"He's a natural"* "She's so smart" "I'm just not a numbers pers "He's a born leader" "She really struggles in this (and maybe can't achieve)" "He's such a talented speak

#### Mindset Works<sup>®</sup> EducatorKit - Module 2 Toolkit

#### **Growth Mindset Feedback**

As students begin to work on their learning objectives, growth minded language guides and motivates them to ensure that they remain persistent, resilient, and focused on the process of learning. It is important to give learners feedback about their progress and their results on they can specifically see their growth.

Use these language frames when interacting with your students in the following situations.

#### When they struggle despite strong effort

- OK, so you didn't do as well as you wanted to. Let's look at this as an opportunity to learn.
- What did you do to prepare for this? Is there anything you could do to prepare differently next time?
- You are not there/here yet.
- When you think you can't do it, remind yourself that you can't do it yet.
- I expect you to make some mistakes. It is the kinds of mistakes that you make along the way that tell me how to support you.
- Mistakes are welcome here!
- You might be struggling, but you are making progress. I can see your growth (in these places).
- Look at how much progress you made on this. Do you remember how much more challenging this was (yesterday/last week/last year).
- Of course it's tough -school is here to makes our brains stronger!
- If it were easy you wouldn't be learning anything!
- · You can do it it's tough, but you can; let's break it down into steps.
- Let's stop here and return tomorrow with a fresher brain.
- · I admire your persistence and I appreciate your hard work. It will pay off.

#### When they struggle and need help with strategies

- · Let's think about how to improve (the accuracy of) this
- section/paragraph/sentence/word choice/logic/description/problem/calculation.
- Let me add new information to help you solve this....
- Here are some strategies to figure this out.
- Describe your process for completing this task.
- Let's do one together, out loud.
- Let's practice (skill) so we can move it from our short-term to our long-term memory.
- · Just try we can always fix mistakes once I see where you are getting held up.
- Let me explain in another way with different words.
- What parts were difficult for you? Let's look at them.
- Let's ask ------ for advice—s/he may be able to explain/suggest some ideas/recommend some strategies.
- Let's write a plan for practicing and/or learning.
- If you make \_\_\_\_\_changes, we can reassess your score. Let's discuss a plan for you.

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## What does smart mean?

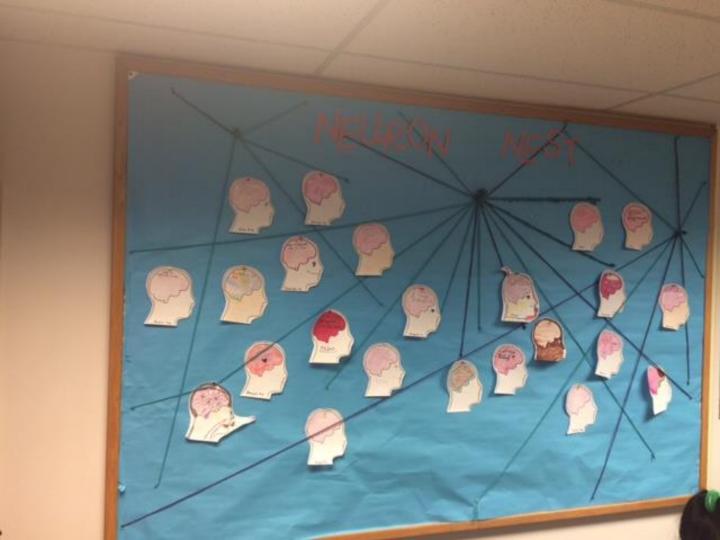
## Fostering Growth Mindsets

## Powerful Drivers of a Growth Mindset

1 I understand that abilities XYZ can be developed.

## 2 I know effective ways to develop those abilities.

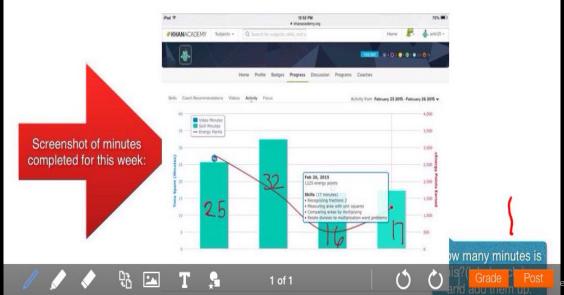
## 3 I belong in this learning community.



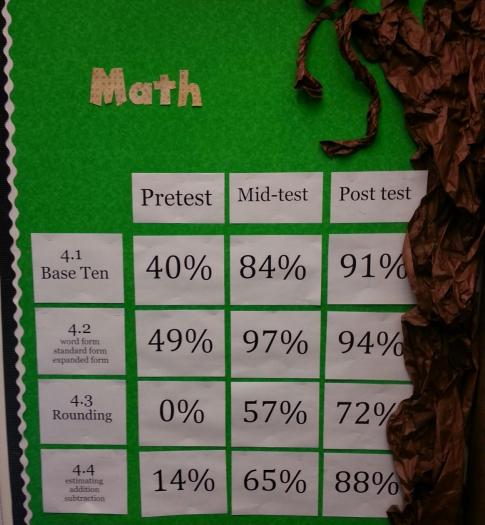


**EXPLAIN YOUR PLAN FOR COMPLETING 80 MINUTES THIS WEEK:** 

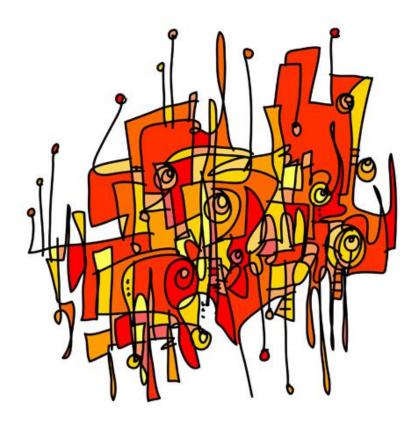
I don't care about the minutes anymore. I just do it for enjoyment and so it can help my neurons connect. And I did a many minutes as I could each day.



et Works, Inc.



We are free to make mistakes while learning Welcow 10 Mrs. Eajaa's davel



"hope isn't a strategy,

but it is an awfully good tactic."

-Seth Godin

@gapingvoid

# Hope: Alternate ways to respondNot Yet...What's Next?

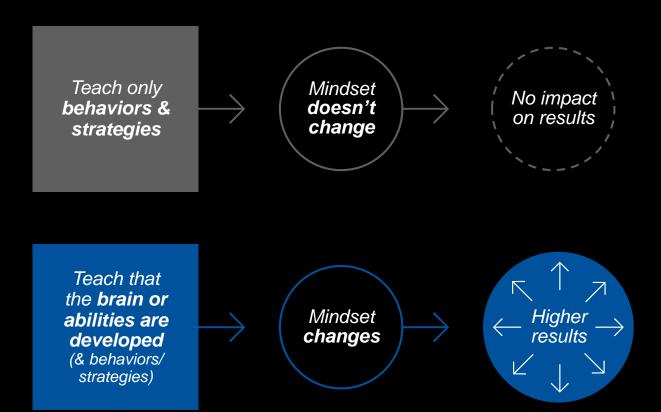
That's my favorite wrong answer. Explain how you got "good at" that.

No, but thank you for playing. How could it be EVEN better?

## Clarity

- Growth Mindset is <u>NOT</u>:
  - Encouraging one another
  - $\cdot$  Seeing effort as good
  - · Challenging oneself
  - Persevering, never giving up
  - · Learning from mistakes
- Growth Mindset <u>is</u>: understanding we can develop our abilities

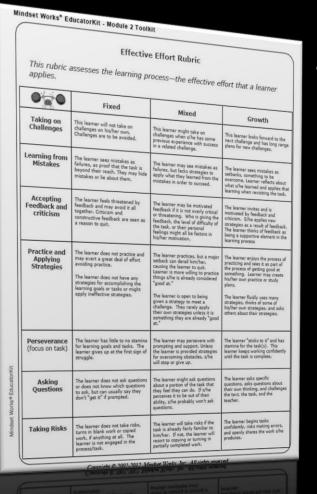
## But What About... Students Who Won't Work Hard?





## Everyone needs one partner.

# Face each other with one person having his/her back to a wall.



## **Effective Effort Rubric**

## a) Assess, give feedback on, & recognize effort

#### www.mindsetworks.com/free-resources

# You have to want to do the work "Life isn't about finding yourself. Life is about creating yourself." Voule te to believe you are worth it.

## Experience Change







how does my brain change?

how do I grow?

what am I saying & doing?

#### But What About... Performance vs. Learning

#### Learning Zone vs. Performance Zone

## Goal: Improve and learn

## Goal: Perform





#### Reflection



#### If there are "points" on the line every How often are students earning time I write on paper and walk in the an **, T** classroom No Pomes pompractice. It's a performance classroom. Every day.

#### Target the Learning Zone

The path to highest performance is highest improvement

**Traditional grading practices** discourage students who most need to improve.

Highest improvement is achieved in the Learning Zone

**Growth mindset practices** help students stay in the **Learning Zone.** 

# MindsetMaker™Grading For Growthby Lisa S. Blackwellhttp://bit.ly/1qSzLoJ

Mindset Works Professional Development: Assessment Practices

#### Grading for Growth in a High-Stakes World



By Lisa Blackwell, Ph.D. Vice President, Mindset Works

Last month, I wrote about creating a risk-tolerant classroom environment as a way to empower students to seek challenge and risk mistakes—core principles of a growth mindset. But how can a classroom be risk-tolerant when there are tests and grades at every turn?

Recently, I gave a workshop in an elementary school district full of creative and dedicated educators. These teachers thought their kids were wonderful, and they wanted nothing more than to simply nurture their enthusiasm, creativity, and growth. But the students (and their parents) were full of anxiety about grades and state tests.

It's no easier for the teachers. Assessment and grading are among the most complex and controversial areas of teaching, because they're expected to do so many different things: motivate students to do their work; measure progress towards learning goals; identify and promote talent and merit; and hold schools and, increasingly, individual teachers, accountable. Many educators are struggling with these competing priorities, and wonder how they can foster a growth mindset at the same time.

I certainly don't have all the answers! But my colleagues and I have learned some valuable lessons from our research and work with students and teachers.

#### Tips on grading for a growth mindset

In the world of the fixed-mindset student, grades measure how smart you are or how much potential you have in the subject at hand. The growth mindset alternative is to view grades as formative feedback that tells you how well you have met learning goals, and whether you need to work harder or change your strategy. But few kids can do so on their own in a context where everyone else—even parents and teachers—are treating grades as an end in themselves, with significant consequences attached to them. They need our help to create a context where assessment is informative and motivating, not judgmental and scary.

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Did you ever wonder why students will persist in playing video games for hours "dving" multiple times before

#### Reflection

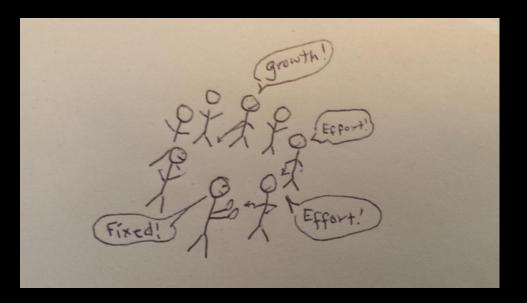
Where do you see opportunities to adopt some assessment or grading practices that are described in the article, "Grading for Growth"?

What challenges do you foresee?

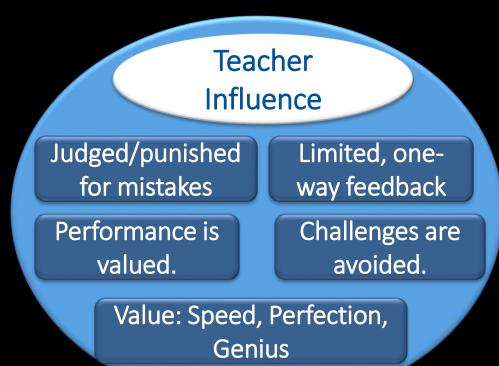
#### But What Does... A Growth Mindset Classroom Look Like?



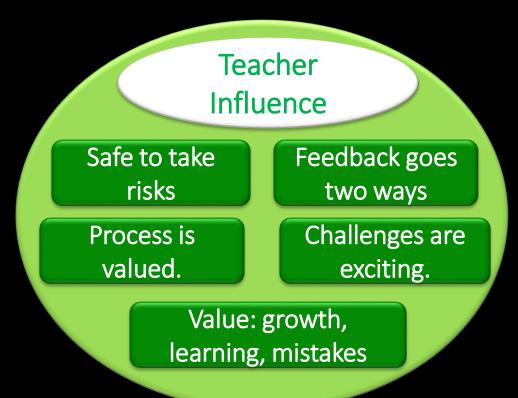
## Growth Fixed Effort



#### **Fixed Mindset Context**



#### **Growth Mindset Context**



#### **Growth Mindset Observational Protocol**

#### Mindset Works<sup>®</sup> Leaders' Toolkit

#### Growth Mindset Classrooms

Growth Minded classrooms are places where all students have an opportunity to grow their intelligence, improve, and learn with effective effort. Below are elements of a Growth Minded classroom. Use this tool to dialogue with teachers and colleagues about practices at your school, providing feedback to one another and looking for opportunities for improvement.

- I. Growth Minded Framing: The teacher presents tasks and assessments in a manner that communicates that with time and practice, all students are capable of meeting rigorous standards and high expectations. Teachers frame tasks as challenging practice that will help students learn. There is a sense that learning is about stretching and growing and that if things are too easy, then students' time has been wasted. Lessons and tasks are presented with a focus on process and growth rather than compliance and error-free performance. Objectives, expectations, and assessment measures are well communicated and transparent so that students understand what they are expected to learn.
- II. Growth Minded Feedback: Feedback to students is targeted to praise effort, process, and persistence rather than intelligence. Teachers give specific feedback about what students are doing correctly, and informational feedback about how they can overcome failure. Growth minded feedback has a focus on behaviors and choices that students can control, rather than on innate talents or skills that leave students feeling powerless.
- III. Growth Minded Learning Strategies: Students are continuously reminded to use appropriate learning strategies to tackle new and challenging material. When students encounter failure, teachers encourage them to change course and try new strategies, thus framing the task as something that is within the students' power to control. When teachers equip students with a variety of learning strategies, they are more likely to try new approaches when the work becomes challenging, and this is demonstrated in the classroom through student perseverance.
- IV. Growth Minded Assessment: Assessment practices are assessment for learning more often than assessment of learning. There are multiple occasions during each lesson when the teacher is checking for understanding and providing specific feedback to students so that they can improve. Students have multiple opportunities to show mastery of what they have learned. Students may also have

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#### Discussion

#### How could you put the resource – the Growth Mindset Observational Protocol – into place in your position?

#### What will you do with this?

#### Key Takeaways

- A growth mindset, deeply pursued, leads to higher growth, performance, and impact
- The belief (the understanding that we can improve) is necessary for the behaviors to change
- 3 ways to foster growth mindsets are:
  - Learn that abilities can change
  - · Learn about how to improve
  - Foster a learning community





### WHAT INSIGHTS ARE YOU TAKING AND WHAT WITL YOU DO ABOUT IT? WWW.MINDSETWORKS.COM

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## THANK YOU!



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