Making Mistakes Matter

https://goo.gl/06pFxG

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How do you feel when you see you made a mistake in real life or on a test/quiz?

“Do the best you can until you know better. Then when you know better, do better.”
~ Maya Angelou
The Power of YET!

- With your elbow partner, share something that you’re not good at currently, but would like to improve on!
  - For Example,
    - “I am not very good at....”

- [https://www.youtube.com/watch?v=XLeUvZyvuAs](https://www.youtube.com/watch?v=XLeUvZyvuAs)

- Then, share with your partner how changing your statement to include YET at the end changed your state of mind.
Growth Mindset - Change your Words...Change your Mindset

Sort cards into two groups

Growth Mindset

I’m on the right track
I can get ideas from others
Mistakes help me improve

Fixed Mindset

I can’t do math
I’m awesome at this
This is too hard
I can’t make this any better

“Everest isn’t the highest point in the world if you set your goals higher!” ~Colton
If analyzing their mistakes is important to their learning, you need to show them this by allowing time in class for discussion on their mistakes!

“A person who never made a mistake never tried anything new.”
- Albert Einstein
“Show me a person who has never made a mistake and I’ll show you somebody who has never achieved much.”

~Joan Collins
The Mistake Game - A Team Effort

- Make a purposeful mistake as you are solving the problem (one you have made or one you would think that someone would make - no “silly” mistakes).

- Show your work clearly on your problem
  - You will present to the class and walk us through your steps acting like you did it correctly (no giving it away).
  - The class will attempt to find your mistake and then have an opportunity to ask questions to “help” your team figure it out.

Take a risk, make a mistake, learn something new!
Warm-ups to analyze mistakes:

- “My Favorite No” -
  - https://www.teachingchannel.org/videos/class-warm-up-routine
- Self Analysis -
- Number Talks -
  - Allows students to develop new strategies for mental math
  - Often students who are not comfortable sharing will participate in this!

Warm-up

Learning Target: I can solve equations.

On next quiz? ☑ On next chapter test? ☑

Date: 3/15/17
From Lesson: 3.2.5

No Clue  On the Right Track  Mastery

7-9. Solve the equation below for the indicated variable.

a. \(3(6 - x) + 2x = 15\) for \(x\)
Homework Mistake Analysis

“There is a difference between not knowing and not know yet.”
~Shelia Tobias

<table>
<thead>
<tr>
<th>Problem (Math 8)</th>
<th>Put a Tally if you don't understand this problem...YET</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-61</td>
<td></td>
</tr>
<tr>
<td>7-62</td>
<td></td>
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<tr>
<td>7-63</td>
<td></td>
</tr>
</tbody>
</table>

Chapter 5 Inverses and Logarithms

Review
- Multiply Polynomials
- Add/Sub/Mult/Divide Rationals
- Factor Quadratics
- Function Notation

Mistake Analysis for Homework

5.1.1 # 6, 9, 10, 11, 12, 13, 15

Needed Help #

Wrong #

5.1.2 # 26, 27, 28, 29, 30, 31, 32, 36, 39

Needed Help #

Wrong #
Test Analysis -

- https://www.teachingchannel.org/videos/math-test-grading-tips
- No Grade written on test
  - helps students focus on what is important - the mistakes they made
- Highlight their mistakes
- Allow time for students to figure out where they went wrong - collaborate with you and their peers

“It’s not how we make mistakes, but how we correct them that defines us.”
~ Rachel Wolchlin
"I am just going to do what makes sense to me right now, that way I will know if it is right or wrong and I can learn from my mistakes!" ~ Brandon
Request to Retest

This form must be submitted before you are allowed to retest in Mrs. Bell’s class.

The Basics.
Name: ___________________________ Period: ____________
Today’s Date: ____________ Requested Retest Date & Hour: ______________________
Learning Target to Retest: ____________________________

Reflect.
What was your previous score? _______
Why?
__________________________________________
__________________________________________
__________________________________________

Stuff to Attach to this request form.
• Previous test
• Proof of your three activities. (A few examples are below)
  o Signed note from parent stating the amount of time they’ve witnessed you studying this concept.
  o Photos or copies of online activities (may also be emailed to Mrs. Bell)
    • bell@portage.k12.wi.us
  o Test corrections
  o One-on-one or small group practice with Mrs. Bell -- set-up a time with me

I request the opportunity to retest this concept. I have worked hard to improve my understanding of this concept.

Student Signature: _______________________________________________
Parent Signature: ________________________________________________

“Experience is simply the name we give our mistakes.”
~ Oscar Wilde
Growth Mindset Survey (midyear):

What is your view of mistakes in math?
- I feel mistakes are essential to improving our understanding of math and growing.
- That if I make a mistake I can learn and keep on trying to understand and fix that mistake.
- I think that they help me grow and learn. I use them to let me know what I need help on and practice them.
- My view of mistakes in math is not a bad thing, I think when we make those mistakes, we learn a lot more then when someone just tells us the answer.
- I view my mistakes in math as a way to get better, so I know I need to practice on certain problems.
- Mistakes are just the first attempt at something, you have many attempts to get the right answers.

Has your view of mistakes changed at all? Why or why not?
- Yes because before I used to make excuses when I made them, now I just except them and try again.
- I feel much more confident in making mistakes this year, and I feel much less stupid doing it.
- Yes it has became way more of a positive thing rather than a negative because I now know that I’m not an idiot for making mistakes, It’s just a learning experience.
- Ya, I would say overall it has, because before I thought that if I made mistakes that meant that I sucked at math.
- Yeah in 7th grade I thought that if I made a mistake it made me look dumb but now I look at it as a way to learn.
Resources

"If you manage people or are a parent (which is a form of managing people), drop everything and read Mindset."
—Guy Kawasaki, author of The Art of the Start

Mindset
THE NEW PSYCHOLOGY OF SUCCESS
HOW WE CAN LEARN TO FULFILL OUR POTENTIAL

* parenting
* business
* school
* relationships

CAROL S. DWRECK, Ph.D.

Visible Learning
What Works Best to Optimize Student Learning

JOHN HATTIE, DOUGLAS FISHER, AND NANCY FREY
WITH LINDA M. GOJAK, GARO DELANO-MOORE, AND WILLIAM MELLMAN

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