Putting the "I" in IWB
Best Practice: Instruction
Levels of Interactivity

Interaction with Interface

Cognitive Interaction

Social Interaction
**Good**

*Old Things in Old Ways*

- Teacher at the board writing and talking.
- Notes written on a board or bullets on a PowerPoint

**Better**

*Old Things in New Ways*

- Individual students coming to the board during whole group
- Graphic Organizer or Clozed Activity on IWB

**Best**

*New Things in New Ways*

- Students collaborating with content at desks or in small group
- Students use prior knowledge to make connections
Characteristics of Mammals

- Mammals have hair or fur on their bodies.
- Mammals give birth to live young.
- Mammals are warm-blooded. They can regulate their own body temperature.
- Mammals have lungs and need air to breathe.
- Mammals produce milk to feed their babies.
All mammals have _______ or _______ on their bodies. They give birth to _______ _________ and produce _________ to feed their babies. Mammals can regulate their own body temperature so they are _______-blooded. All mammals have _________ and need air to breathe.
What do all mammals have in common?
New Things in New Ways

- Interactive Learning Station
- Collaborative Learning
- Hypothesizing
- Higher Level Thinking Skills

- Learners at the Board
Best Practice:
File Design
Best Practice: Design

- Color
- Font
- Layout

- "F" Pattern - Eye Movement
How many pieces are green?

How many pieces in the shape?
Part of a Whole

Directions:

How many parts are blue?

How many parts in all?

Answer

??
9\sqrt{252}
Long Division

1. \[ 2 \overline{\div} 278 \quad \text{Answer} \quad 2 \overline{\div} 278 \]
Formula to find the slope of a line

Slope = \frac{y_2 - y_1}{x_2 - x_1}

Points: \((-3, 6) \& (2, 4)\)

\frac{y - 6}{x - (-3)} = \frac{4 - 6}{2 - (-3)} = \frac{-2}{5}
Find the Slope

Slope =

Show Your Work:

(-3, 6) & (2, 4)
Identify other ways to show the number.
Place Value

<table>
<thead>
<tr>
<th>Hundreds</th>
<th>Tens</th>
<th>Ones</th>
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<tbody>
<tr>
<td>0</td>
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</table>

Expanded Form

Written Form
How many bunnies?
Learning Goal: We are counting up to 30!

A 1 2 two
B 2 3 three
C 3 4 four
D 4 5 five
How Many?

A  B  C  D  E  F
0  1  2  3  4  5
January

Today is ________ January _____, 2014.

Today is the ________ day of school.

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<tbody>
<tr>
<td></td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
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<tr>
<td>9</td>
<td>10</td>
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</table>
Write the correct **value** next to the coin. Don’t forget the cent sign (¢).

Move the magnifying glass over the coins to check.

Students will learn about and practice counting money.
What's it worth?

25¢  1¢  5¢  10¢
Translation - Slide

Press **Slide** to see the square slide on the graph paper.

Reflection - Flip

Press **Flip** to Reflect the Shape

What Do These Words Mean?

Press **Turn** to Rotate the Shape

Rotate - Turn

Now watch the following video on flips, slides and turns by clicking on the web site to the right. Then go to Lessons and Slides, Flips and Turns.
Why did Leonardo da Vinci write with a mirrored text?

What are five inventions of Leonardo da Vinci?

Why is Leonardo da Vinci considered a Renaissance man? Why is he known as one of the greatest persons ever to have lived?

Describe in detail what is going on in the painting, The Last Supper.
Vocabulary

Parallel Lines: coplanar lines that do not intersect.

Transversal: a line that intersect two or more other lines at different points.
Review

1. 

2. 

3. 

4. 

5. 123,456

6. \[ \frac{5}{9} \]
Best Practice: Design

Color

Font

Layout

Be consistent
Best Practice

- Reveal information in a focused way
- Self-Checking Activities
- Simulation
- Don't sit on your laurels!
Best Practice: Management
Management Tips

- One Page
- Learner Expectations
- Model & Practice
  - Notes Browser
  - Learner Jobs
  - Dual User
Management

- Organizing & Saving
  Save a clean copy
  Files/Pages for each group

- Patience & Routine
Comparing Change

$0.00 < > = $0.00
Story Problem

18 + 2 = 20

What could the story problem be?
Math Wizards - Money

Move around the room quietly.

Solve each of the 4 problems.

The first person finished will lead our discussion.
<table>
<thead>
<tr>
<th>Explore</th>
<th>Plan</th>
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<table>
<thead>
<tr>
<th>Solve</th>
<th>Examine</th>
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Use the cubes as models to solve/check.
Who is in your group?

1

2

3

4

5

6
Tell me about your book

What is the title of your book?  
Who is the author of your book?
Best Practice: Classroom Design
Classroom Design

Which classroom is best designed for interactivity?
Increase Accessibility:
• Open Space
• Adjust Board Height, or use a Step
• Create a Path
http://icafe.lcisd.org/