Handheld computers
Getting your students back through engagement

Kulm High School
Kulm, North Dakota

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School Facts

- Grades 7 – 12
- 68 Students
- Very rural
- Great mix of staff (Male / Female and Young/Mature)
- CTBS, NWEA, ACT, PSAT
Kulm High School (7th – 12th)

- Content without engagement is worthless
- All students are issued a Handheld.
- Software – Discourse, HLE, PAAM, e-chem, GIS.
- Extras - GPS, digital cameras, Science probes.
Ipaqs – what have they done for us?

- Anytime anywhere access
- Engages ALL students
- Flexibility (do homework anywhere – games, bus, lunch, etc.)
- Co-curricular activities
- Students have gained a great pride in themselves!!
- National attention (Blue Ribbon Award)
## The Result

<table>
<thead>
<tr>
<th>This year's Class</th>
<th>Spr 04 – Fall 04</th>
<th>Spr 05 – Fall 05</th>
<th>Spr. 06 – Fall 06</th>
<th>NWEA approximate expected regression</th>
</tr>
</thead>
<tbody>
<tr>
<td>7th</td>
<td>-12</td>
<td>+3</td>
<td>-7</td>
<td>-2</td>
</tr>
<tr>
<td>8th</td>
<td>-12</td>
<td>-5</td>
<td>-1</td>
<td>-2</td>
</tr>
<tr>
<td>9th</td>
<td>-1</td>
<td>+4</td>
<td>+1</td>
<td>-7</td>
</tr>
<tr>
<td>10th</td>
<td>-7</td>
<td>+2</td>
<td>+3</td>
<td>-10</td>
</tr>
</tbody>
</table>
## ND State Assessment Data

<table>
<thead>
<tr>
<th>Year</th>
<th>05-06</th>
<th>04-05</th>
<th>03-04</th>
<th>02-03</th>
<th>01-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Testing Month</td>
<td>October</td>
<td>October</td>
<td>October</td>
<td>October</td>
<td>October</td>
</tr>
<tr>
<td>% of students tested.</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Number of students alternatively assessed</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>% of student alternatively assessed</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

**SCHOOL SCORES**

| % Meeting Plus exceeding state standards in Reading | 86.96% | 73.00% | 56.52% | 68.00% | 58.06% |
| % Meeting Plus exceeding state standards in Math | 78.26% | 53.33% | 52.17% | 44.00% | 35.48% |

**SUB GROUP SCORES**

<table>
<thead>
<tr>
<th>Economically Disadvantaged</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>% Meeting Plus exceeding state standards in Reading</td>
<td>91.67%</td>
</tr>
<tr>
<td>% Meeting Plus exceeding state standards in Math</td>
<td>66.67%</td>
</tr>
</tbody>
</table>
General Ipaq usage

- Notes (easy to read, review and organize)
- Organizer (calendar)
- Do homework anywhere
- Make up work (Videos, worksheets)
- Paam
What do you use your Ipaq for other than what teachers make you use it for?
Discourse

- Engages EVERY student, EVERY time!
- Students would rather be part of the discussion when using discourse since it is very non-threatening.
Discourse in Action
Why do you like to use Discourse rather than a traditional classroom?
Science Probes

- Portable (the world has become our lab)
- VERY accurate data
- Excellent lab reports
Chemistry class
HLE

- Portfolio that brings numerous programs together. This allows students to do multi dimensional project.
  - Pico Map
  - Sketchy
  - Excel
  - Word
  - Internet sites
Black Board

- Great tool to stimulate discussions (times have changed)
- On line reviews (Night before test)
- Great when student or teacher is absent
What makes it work

- Administration, Tech person, teachers, and School board ALL working together.
Do you have what it takes to make a difference??

It is not the critic who counts, not the man who points out how the strong man stumbled or where the doer of deeds could have done better.

The credit belongs to the man who is actually in the arena; whose face is marred by dust and sweat and blood; who strives valiantly; who errrs and comes short again and again; who knows the great enthusiasms, the great devotions and spends himself in a worthy cause; who, at the best, knows in the end the triumph of high achievement; and who, at the worst, if he fails, at least fails while daring greatly, so that his place shall never be with those cold and timid souls who know neither victory nor defeat.

-Theodore Roosevelt
My question

- How do we get the last 10% in order to have 100% proficient?