See You on the FLIP Side

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Lewis & Clark Community College
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A student-centered approach to teaching that involves the use of technology to create active learners who take ownership of their own education.
Flipping is NOT:

* An online course
* Sitting in a computer lab
* Lack of structure
Flipping is:

- Increased focus on concepts and application
- Personalized learning
- Engaged learning
- Increased student-teacher interaction
- Increased collaboration
“Sage on the stage”
TRADITIONAL

SCHOOL

Teacher lectures content
Student applies lesson
“Guide by the side”
HOME

Student reviews content
Teacher facilitates deeper discussion
THE GOAL

* Lower level cognitive work done outside of class (e.g. terminology, gathering information, etc.)

* Higher level cognitive work done inside class (e.g. application, analysis, etc.)
Is Flipping really a new idea??

* Do literature classes read novels only during class?
* Read the book and take notes
* Try the homework
* Come prepared to discuss in class
WHAT’S NEW??

TECHNOLOGY!!!

- Software
- Internet
- Videos/Podcasts
- You Tube
- Apps
WHAT’S NEW??

- Technology allows us to address multiple learning styles more easily
- Technology allows greater access to information and resources
1. You have to flip every lesson

* Start small and build
* Learn what works for your students
2. Flipping devalues teachers

* Dispensing information is easy – understanding concepts is hard
* Students need help becoming independent learners
3. Flipping will fix U.S. math

- Students are unprepared
- Careful planning necessary
- Hard to reach students may still be hard to reach
4. Flipping only works with internet access

* School labs
* Smartphones
* DVDs
<table>
<thead>
<tr>
<th></th>
<th>Desktop</th>
<th>Laptop</th>
<th>Any Computer</th>
</tr>
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<tbody>
<tr>
<td>Total</td>
<td>59%</td>
<td>52%</td>
<td>76%</td>
</tr>
<tr>
<td><strong>Gender</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>60</td>
<td>54</td>
<td>78</td>
</tr>
<tr>
<td>Women</td>
<td>59</td>
<td>51</td>
<td>75</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-29</td>
<td>56</td>
<td>72</td>
<td>88</td>
</tr>
<tr>
<td>30-49</td>
<td>67</td>
<td>61</td>
<td>83</td>
</tr>
<tr>
<td>50-64</td>
<td>63</td>
<td>44</td>
<td>76</td>
</tr>
<tr>
<td>65+</td>
<td>39</td>
<td>21</td>
<td>45</td>
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Fall 2010
Changes in smartphone ownership, 2011–2013

% of all U.S. adults who own...

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<tr>
<th></th>
<th>May 2011</th>
<th>February 2012</th>
<th>May 2013</th>
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<tbody>
<tr>
<td>Smartphone</td>
<td>35%</td>
<td>46%</td>
<td>56%</td>
</tr>
<tr>
<td>Other cell phone</td>
<td>48%</td>
<td>41%</td>
<td>35%</td>
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<tr>
<td>No cell phone</td>
<td>17%</td>
<td>12%</td>
<td>9%</td>
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Source: Pew Research Center’s Internet & American Life Project April 26-May 22, 2011, January 20-February 19, 2012, and April 17-May 19, 2013 tracking surveys. For 2013 data, n=2,252 adults and survey includes 1,127 cell phone interviews. All surveys include Spanish-language interviews.
<table>
<thead>
<tr>
<th>Own a smartphone</th>
<th>56%</th>
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<tbody>
<tr>
<td><strong>Gender</strong></td>
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<tr>
<td>a Men (n=1,029)</td>
<td>59&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>b Women (n=1,223)</td>
<td>53</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
</tr>
<tr>
<td>a 18-24 (n=243)</td>
<td>79&lt;sup&gt;cdef&lt;/sup&gt;</td>
</tr>
<tr>
<td>b 25-34 (n=284)</td>
<td>81&lt;sup&gt;cdef&lt;/sup&gt;</td>
</tr>
<tr>
<td>c 35-44 (n=292)</td>
<td>69&lt;sup&gt;def&lt;/sup&gt;</td>
</tr>
<tr>
<td>d 45-54 (n=377)</td>
<td>55&lt;sup&gt;ef&lt;/sup&gt;</td>
</tr>
<tr>
<td>e 55-64 (n=426)</td>
<td>39&lt;sup&gt;f&lt;/sup&gt;</td>
</tr>
<tr>
<td>f 65+ (n=570)</td>
<td>18</td>
</tr>
<tr>
<td><strong>Race/ethnicity</strong></td>
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<tr>
<td>a White, Non-Hispanic (n=1,571)</td>
<td>53</td>
</tr>
<tr>
<td>b Black, Non-Hispanic (n=252)</td>
<td>64&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td>c Hispanic (n=249)</td>
<td>60</td>
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5. Flipping means online videos

* Quality not quantity
* Interactive
* Guided study
THINGS TO CONSIDER WHEN IMPLEMENTING A FLIP

* Be clear with expectations
* Not everything needs to be flipped
* Emphasize individual work at home and group work in class
THINGS TO CONSIDER WHEN IMPLEMENTING A FLIP

* Focus on quality not quantity
* Team up with others to share the work
* Too much of anything is usually bad – mix it up!
THINGS TO CONSIDER WHEN IMPLEMENTING A FLIP

* Hold students accountable for outside work
* Assess outside work to help focus direction of in-class work
THINGS TO CONSIDER WHEN IMPLEMENTING A FLIP

* Stick to simple (inexpensive) established technologies
* Publisher content (but be picky)
* ADA Compliance
SOME RESOURCES

* www.flippedlearning.org
* http://www.edudemic.com/whats-a-flipped-classroom/
* http://www.scoop.it/t/the-flipped-classroom
* http://www.flippedclassroom.com/
* http://cft.vanderbilt.edu/teaching-guides/teaching-activities/flipping-the-classroom/
* http://cft.vanderbilt.edu/teaching-guides/teaching-activities/flipping-the-classroom/
* http://www.techsmith.com/edu-k12-flipped-learning.html
Anything to Share?

* Experiences
* Ideas
* Questions
THANK YOU!!

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