Teaching with OER at UK

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CHE 103: Chemistry for Allied Health Professionals

• Pre-nursing students
• One-semester survey course (GOB)
• Only chemistry course
• 200-250 students per semester
Why change?

• Limited number of textbooks available at appropriate level with covered content
• Content order in textbooks
• Cost
Traditional Textbook

- Cost
  - New: $165
  - Average student cost: $85
- Not a reference book for students
Challenges in Finding OER

• Content
  • Topics
  • Accuracy
  • Readability

• Level
  • Broad survey of topics
  • Shallow coverage
Resources

• OpenStax
• LibreText (ChemWiki)
• CK12.org
<table>
<thead>
<tr>
<th><strong>Pros</strong></th>
<th><strong>Cons</strong></th>
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<tbody>
<tr>
<td>Web-based</td>
<td>Editor</td>
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<tr>
<td>PDF</td>
<td>Level of content not always sufficient</td>
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<tr>
<td>Substantial amount of content</td>
<td>Hard to link to individual section or page</td>
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LibreText (ChemWiki)

- Content
  - Transferred existing content
  - More chemistry content available
- Improved editing
- Link to book, pages, and sections
Where do we go from here?

• Improvement of current materials
  • Content
  • Practice problems
  • Solutions manual
• Other CHE courses
  • OpenStax as option for current students in General Chemistry (correlation guide)