Integrating Critical Thinking and Health Makerspace Activities

Nancy Meehan, PhD, RN
Nurses solve Problems...
My Idea

Clemson University

Prepare to Engage

Clemson Makerspace

School of Nursing

NURS 1400

Clemson School of Nursing
What is a MakerSpace?
Watt Family Innovation Center: MakerSpace
## CT2 Makerspace Rubric

<table>
<thead>
<tr>
<th>Category</th>
<th>Strong (10 pts)</th>
<th>Acceptable (8 pts)</th>
<th>Unacceptable (6 pts)</th>
<th>Weak (4 pts or less)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Problem</strong></td>
<td>Problem is clearly defined, evidence, questions, etc. are accurately interpreted.</td>
<td>Problem is clearly defined, evidence, questions, etc. are accurately interpreted.</td>
<td>Problem is not clearly defined, evidence, questions, etc. are misinterpreted.</td>
<td>Problem is not clearly defined or evidence, questions, etc. are interpreted with bias.</td>
</tr>
<tr>
<td><strong>Pros &amp; Cons</strong></td>
<td>Identifies most important arguments for and against the solution chosen.</td>
<td>Identifies relevant arguments for and against the solution chosen.</td>
<td>Fails to identify strong, relevant counter argumets for the solution chosen.</td>
<td>Fails to identify or hastily dismiss strong, relevant counter arguments for the solution chosen.</td>
</tr>
<tr>
<td><strong>Points of View</strong></td>
<td>Thoughtfully analyzes and evaluates major alternative points of view.</td>
<td>Offers analyses and evaluations of selected alternative points of view.</td>
<td>Superficially evaluates obvious alternative points of view.</td>
<td>Ignores obvious alternative points of view.</td>
</tr>
<tr>
<td><strong>Conclusions</strong></td>
<td>Draws warranted, thoughtful, logically sound conclusions.</td>
<td>Draws warranted, logically sound conclusions.</td>
<td>Draws unwarranted or unwarranted conclusions.</td>
<td>Argues using unwarranted or irrelevant reasons, and unwarranted claims.</td>
</tr>
<tr>
<td><strong>Explanations</strong></td>
<td>Outlines key situations and results, explains assumptions and reasons.</td>
<td>Outlines key situations and results, explains reasons.</td>
<td>Omits key situations and results, fails to explain assumptions and reasons.</td>
<td>Does not justify conclusions and results, or explains reasons.</td>
</tr>
<tr>
<td><strong>Objectivity</strong></td>
<td>Fair-mindedly evaluates where evidence and reasons lead.</td>
<td>Shows prejudice when following where evidence and reasons lead.</td>
<td>Ignoring the evidence or reason, and defends views based on self-interest or preconceptions.</td>
<td>Exhibits close-mindedness to reason.</td>
</tr>
<tr>
<td><strong>Digital Media</strong></td>
<td>3 or more different types of Adobe Spark products are used in final presentation.</td>
<td>2 or more different types of Adobe Spark products are used in final presentation.</td>
<td>1 additional type of Adobe Spark products are used in final presentation.</td>
<td>No integration of Adobe Spark products are used in final presentation.</td>
</tr>
<tr>
<td><strong>Effort</strong></td>
<td>Completed work with excellence and exceeded faculty expectations.</td>
<td>Completed work with an above average manner.</td>
<td>Work is complete but lacks initiative and finishing touches.</td>
<td>Work shows minimal effort.</td>
</tr>
<tr>
<td><strong>Participation</strong></td>
<td>All group members participate actively and equally in presentation.</td>
<td>All group members participate, but work is unevenly shared.</td>
<td>Some group members participate very little or not at all.</td>
<td>One or more group members need to be reassigned to another group.</td>
</tr>
<tr>
<td><strong>Time</strong></td>
<td>Presentation is between 3 - 3.5 minutes long.</td>
<td>Presentation is too long or too short by more than 30 seconds or less.</td>
<td>Presentation is too long or too short by more than 30 seconds.</td>
<td>Presentation is too long or too short.</td>
</tr>
</tbody>
</table>

Total Points Awarded: ___________

Minimum: Strong 100 pts; Acceptable 80 pts; Unacceptable 60 pts; Weak 40 pts.

*Inspired by The Holistic Critical Thinking Scoring Rubric by Peter & Noreen Facone.*
NURS 1400 Makerspace Projects Sp18
Previous Nursing Projects
Critical Thinking Measures I will look at:

1. ETS
   • Freshmen orientation

2. CCTST
   • Pretest/posttest
   • NURS 1400 class – Freshmen 2

3. Kaplan
   • Throughout junior and senior year in nursing
   • Partial scoring
Clemson CT2 Makerspace Project
Adobe Spark Example