Many first year undergraduate students arrive at university without having been taught how to think critically. This poses a serious problem as without critical thinking skills, students can fall into bad intellectual habits impeding their development. An example of this is the over-reliance on the internet for information. The resulting ‘Google-it’ mentality can then leave sixth-formers insufficiently prepared for Higher Education; impacting their ability to thrive at university.
Using peer feedback to help develop critical thinking skills

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Research design

A classroom intervention activity was designed for first year undergraduate students at the University of West London (UWL) that aimed to encourage critical thinking and test the effectiveness of peer feedback as a tool for developing competence in critical thinking. A scaffolded approach was developed; using two specifically designed handouts. The first helped students critically structure their arguments and the second was used to work in pairs/small groups to evaluate the arguments of peers and provide meaningful feedback.

An active learning approach was used for this project with a group of first year business students who had a summative assessment that took the form of a group discussion (worth 20% in a core skills-building module). The assessment involved discussion, in small groups, of a highly topical and emotive subject (cyberbullying). Students were required to adopt a position in the discussion and support this with credible academic evidence – while also listening and responding to the opinions of other group members. The assessment was challenging, so, in order to support students, three lessons were planned to introduce students to critical thinking and argument positioning using specifically designed handouts (see Figures 1 & 2), and utilising peer feedback. The module was delivered by a team of tutors so lesson planning had to be clear in order to be effective in its support of the students. The process is summarised in Figure 3.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Does the speaker attempt to engage listeners? How?</td>
<td></td>
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<tr>
<td>What side is the speaker on?</td>
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<tr>
<td>What are the reasons provided by the speaker to justify their position?</td>
<td>1)</td>
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<tr>
<td>Is the evidence they provide to justify each of their reasons clear?</td>
<td>1)</td>
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<tr>
<td>What is/are the speaker’s counter claim(s)?</td>
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<tr>
<td>How well is/are the counter claim(s) refuted? Are facts/reasons/evidence used?</td>
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<td>Write any emotionally charged words that were used that the speaker may want to change</td>
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<tr>
<td>Are the speaker’s ideas connected appropriately; is there coherence between the reasons and evidence? Is appropriate academic vocabulary used?</td>
<td></td>
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<tr>
<td>Does the speaker clearly articulate their conclusion and is it clear which side the speaker is on?</td>
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**FIGURE 1** Building an argument

**FIGURE 2** Peer-Evaluation Form for Critical Thinking

**FIGURE 3** Supporting critical thinking

### Lesson 1
Students were introduced to critical thinking and positioning within an argument through the use of relevant current issues. Information related to assessment topic uploaded to online student portal.

### Lesson 2
Lesson was held in computer room to allow students to undertake research using Handout 1 to structure thinking. Tutor monitoring to provide support if necessary.

### Lesson 3
Students worked in pairs/threes using completed Handout 1 and were further provided with Handout 2 to assist in evaluating and providing meaningful/structured feedback. Tutor monitoring to provide clarification/support as necessary.
What did the students think?

Students provided anonymous feedback one week after completion of their assessed group discussion task. This allowed time for them to reflect on the usefulness of the intervention in the development of their critical thinking ability and the extent to which they were able to apply this in their assessment. It was clear from their comments that they had found the structure of both handouts helpful. Ninety-five percent of students commented that the peer feedback process using both handouts increased their competence in critical thinking and all students felt that they better understood the value of peer feedback in skills development. Furthermore, 90% of students felt that they had performed better in the assessment after the intervention and were anticipating higher marks.

Qualitative data from the student evaluations also showed positive results with comments such as:

“This template helped to structure my points more clearly and come to a more solid point and showed me you can’t just say a point without legitimate evidence.”

“Helped me structure my argument in a critical way”

“This type of exercise ... is actually very handy and helpful for critical thinking”

“It encourages you to use evidence for your argument”

“It helped me organise my thinking and not go off topic which can happen when researching”

These findings are in contrast to Wanner and Palmer’s study (2018) where students found peer feedback helpful but that it did not necessarily result in improved marks. The present study also finds itself in contrast with Stainer’s research (2015) where linking scaffolding to assessment became problematic; the reason for this difference could be attributed to students having the scaffolding (two handouts) with them and consequently they did not feel abandoned when the tutor’s verbal support was gradually faded and replaced with peer feedback.

A further unplanned impact of the intervention was on the confidence of the module team. At a meeting to discuss the effectiveness of the intervention, it became evident that tutors who had previously felt hesitant about peer feedback activities now appreciated the value and were much more confident about setting up such activities in their teaching. Moreover, these tutors also had a clearer understanding of the importance of explicitly teaching thinking skills and facilitating this in a classroom setting.
Conclusion

The most important impact of this project was on the confidence of the students who felt that the intervention placed them in a much better position in terms of their ability to construct and evaluate a critical argument. It helped them realise the value and effectiveness of peer feedback and the explicit support provided by tutors. The overwhelming opinion was that critical thinking is a crucial skill that students value support to develop.

This intervention has the potential to be used as is, or adapted for any discipline taught at first year undergraduate level, to develop students’ critical thinking abilities in a supportive environment with peers, where ideas can be tested collaboratively without outside pressures. This research could be further developed with second and final year students in mind, on ways to continue explicitly supporting students in the development of critical thinking.

References


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Keywords

Information evaluation, productive thinking, scaffolding