

# Taking Sides in Virtual Debates: Social Knowledge Construction in an Online Discussion

**Phase IV** 

Phase V

Total

0.0%

0

0.0%

100.0%

Interdisciplinary Inquiry & Teaching
Fellowship Program
2016-2017
James Madison College

THE ASSIGNMENT

- Students participate in weekly debates over social issues related to the course.
- Students choose a side to defend.
- They argue for their side using relevant course material and outside sources.
- Students respond to classmates to engage in asynchronous discussions during the week.

### **ASSIGNMENT TASKS**

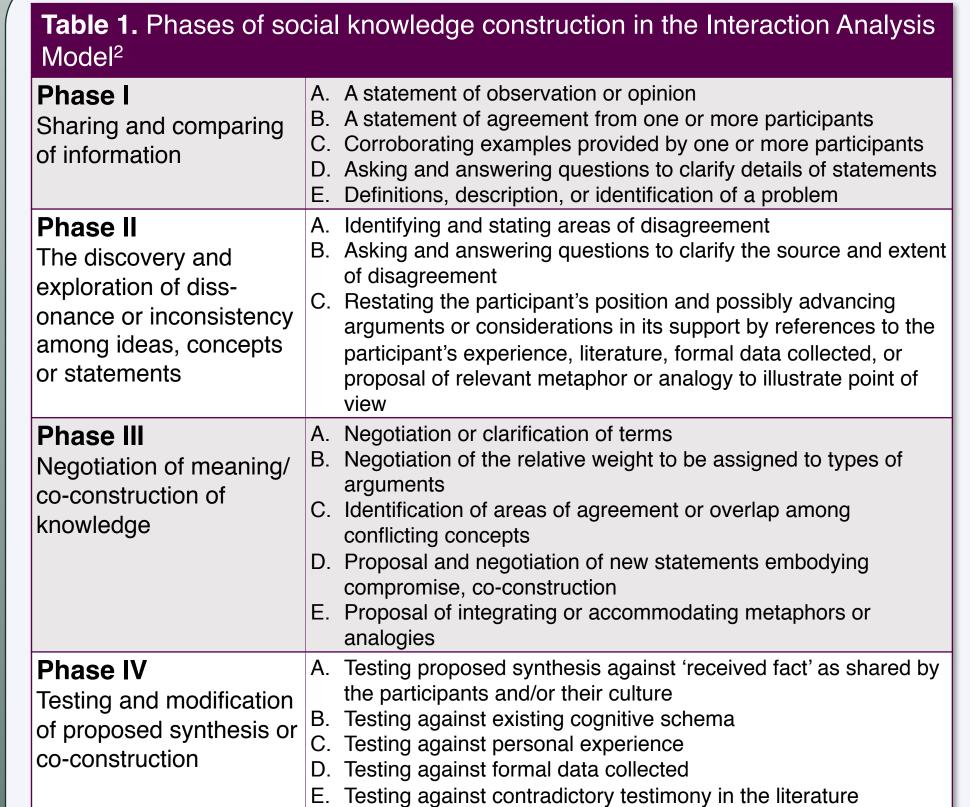
- Read both sides of the issue for the week from *Taking Sides: Clashing Views in Adolescence*<sup>1</sup> and any supplemental material.
- Take the YES or the NO position and in about 250 words argue for that side (using course material support the argument).
- In about 150 words, respond to a fellow student who took the opposing side.
- Post one more response (about 150 words) anywhere else.

### **RESEARCH QUESTIONS**

- Is there evidence of social knowledge construction in these discussions?
- How does the debate format contribute to social knowledge construction?

## **CONTENT ANALYSIS & METHODS**

- Coded using the Interaction Analysis
   Model (IAM), which separates knowledge
   construction into 5 phases (see Table 1).<sup>23</sup>
- The IAM was developed using grounded theory and analysis of online debates.<sup>2 4</sup>
- The unit of analysis is the individual post; each instance of students' cognitive activity is taken separately.
- Analysis of 71 posts from Week 2 of the course, debating: Do reality TV shows portray responsible messages about teen pregnancy?



# **FINDINGS**

A. Summarization of agreement(s)

Applications of new knowledge

C. Metacognitive statements by participants illustrating their

understanding that their knowledge or way of thinking (cognitive

schema) have changed as a result of the conference interaction

- Most Level 1 posts reached Phase II in the IAM, few reached Phase III, and no Level 1 posts reached Phases IV and V (see Table 2).
- Level 2 posts are spread across more phases (see Table 2).

Phase V

Agreement statement(s)

application of newly

constructed meaning

- However, this depends on whether the post was an agreement response or a disagreement response (see Figure 1).
  - Agreement post: from someone on the same side of the debate.
- <u>Disagreement post</u>: from someone on the opposite side of the debate (this was a requirement of the assignment).
- All Level 3 posts were of Phase III or higher, despite few posts at this level (see Table 2).

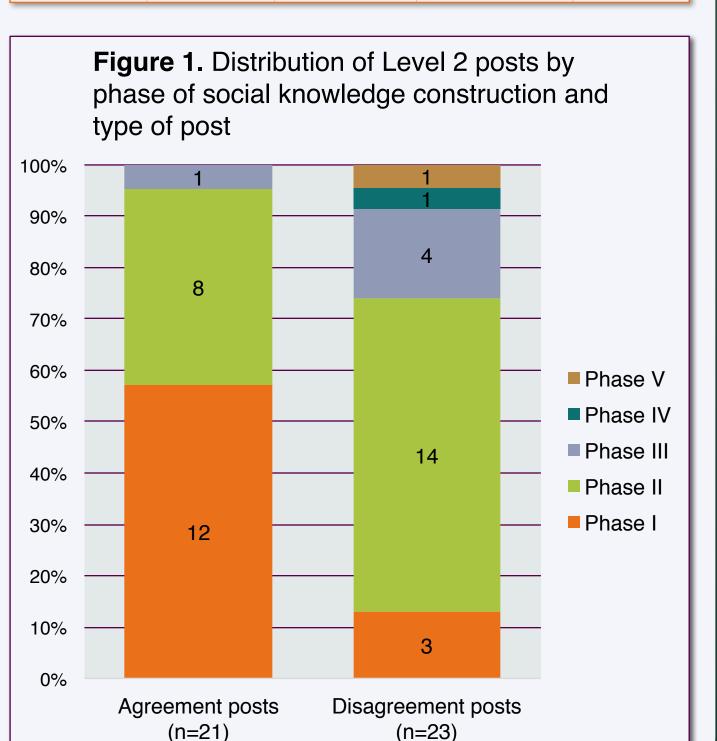
construction by level of post				
	Level 1 Original post	Level 2 Response to original post	Level 3 Response to response post	Total
Phase I	7	15	0	22
	29.2%	<i>34.1%</i>	<i>0.0%</i>	31.0%
Phase II	16	22	0	38
	<i>66.7%</i>	50.0%	<i>0.0%</i>	<i>53.5%</i>
Phase III	1	5	2	8
	<i>4.2</i> %	11.4%	<i>66.7%</i>	11.3%

2.3%

2.3%

44

100.0%





- . Online discussions give all students a voice and allow them to back opinions with logic and facts.
- 2. Online debates requires students to confront opposing viewpoints and think carefully about how to respond and negotiate differences.
- 3. Require more, but shorter, discussion posts.
  - More posts should increase the development of social knowledge construction.
- 4. Require more high level posts in discussions.

2

2.8%

1.4%

71

100.0%

33.3%

0.0%

3

100.0%

- Higher level posts reached higher phases of social knowledge construction.
- 5. Require more discussion posts in response to opposing views.
- Social knowledge construction occurs when opposing views are confronted and negotiated.

### **REFERENCES**

- Serafini, T., Rye, B., & Drysdale, M. (2012). Taking sides: Clashing views in adolescence (3rd ed.). McGraw-Hill Education.
- Gunawardena, C. N., Lowe, C. A., & Anderson, T. (1997).
   Analysis of a global online debate and the development of an interaction analysis model for examining social construction of knowledge in computer conferencing. *Journal of Educational Computing Research*, 17(4), 397-431.
- 3. Lucas, M., Gunawardena, C., & Moreira, A. (2014). Assessing social construction of knowledge online: A critique of the interaction analysis model. *Computers in Human Behavior*, *30*, 574-582.
- 4. Marra, R. M., Moore, J. L., & Klimczak, A. K. (2004). Content analysis of online discussion forums: A comparative analysis of protocols. *Educational Technology Research and Development*, *52*(2), 23-40.

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