

2017

# Questioning for Critical Thinking

Karen Conner  
*Gardner-Webb University*

Ashton Copley  
*Gardner-Webb University*

Betsy Furr  
*Gardner-Webb University*

Follow this and additional works at: <https://digitalcommons.gardner-webb.edu/improve>

 Part of the [Curriculum and Instruction Commons](#), and the [Teacher Education and Professional Development Commons](#)

---

## Recommended Citation

Conner, Karen; Copley, Ashton; and Furr, Betsy, "Questioning for Critical Thinking" (2017). *Instructional Modules for Professional learning Responding to Opportunities and Valuing Educators (IMPROVE)*. 12.  
<https://digitalcommons.gardner-webb.edu/improve/12>

This Book is brought to you for free and open access by the School of Education at Digital Commons @ Gardner-Webb University. It has been accepted for inclusion in Instructional Modules for Professional learning Responding to Opportunities and Valuing Educators (IMPROVE) by an authorized administrator of Digital Commons @ Gardner-Webb University. For more information, please contact [digitalcommons@gardner-webb.edu](mailto:digitalcommons@gardner-webb.edu).

## Questioning for Critical Thinking Online Professional Module

### **Description of the PLM**

Effective questioning is essential for learning. This module will explore questioning for learning and critical thinking. This module was designed for use by teachers of all grade levels. It is intended for the benefit of teachers in designing their instruction and for the benefit of the students they teach. Participants in this PLM will consider the importance of which questions are asked, who gets to ask them, and what role they play in student achievement.

### **Subjects**

- Questioning
- Effective questioning
- Questioning for critical thinking
- Critical thinking
- Questions

### **Links**

*The Power of Questions* Shell video-

<https://www.youtube.com/watch?v=5ubko9WeI6M>

Questioning IQ Quiz-

<http://amorebeautifulquestion.com/whats-your-inquiry-quotient-quiz/>

*Questioning Skills and Strategies* video-

[https://www.youtube.com/watch?v=vEZ-\\_VqaBgM](https://www.youtube.com/watch?v=vEZ-_VqaBgM)

*The Power of Effective Questioning* video-

[https://www.youtube.com/watch?v=1dO0dO\\_wmE](https://www.youtube.com/watch?v=1dO0dO_wmE)

*The Question Formulation Technique in a High School Science Class* video-

<https://www.youtube.com/watch?v=9wrIIDNECUQ>

The Right Question Institute-

<http://rightquestion.org/>

Quizlet Questioning Quiz-

<https://quizlet.com/200524776/questioning-for-critical-thinking-flash-cards/>

Blackburn's questioning matrix

<http://www.barbarablackburnonline.com/app/download/6480563804/Chapter+6++QuestionMatrixpg96.pdf>

Melissa Tallman's site "Got to Teach"-

<http://gottoteach.com/>

The Keys to Literacy blog-

<https://keystoliteracy.com/blog/teach-them-how-to-think-deep/>

ASCD article "The Right Questions"-

<http://www.ascd.org/publications/educational-leadership/oct14/vol72/num02/The-Right-Questions.aspx>

Robert Stahl article-

<https://www.ericdigests.org/1995-1/think.htm>

## References

- Berger, W. (n.d.). Home Overview ~ A More Beautiful Question by Warren Berger. Retrieved July 04, 2017, from <http://amorebeautifulquestion.com/>
- Bigelow, M. L. (2015, September 10). It's what you don't say that counts. Retrieved July 03, 2017, from <http://www.ascd.org/ascd-express/vol11/1101-bigelow.aspx>
- Black, P., Harrison, C., Lee, C., Marshall, B., & Wiliam, D. (2003). Assessment for learning putting it into practice. Berkshire: Open University Press.
- Chin, C. (2006). Classroom interaction in science: teacher questioning and feedback to students' responses. *International Journal of Science Education*, 28(11), 1315-1346.
- Chin, C. (2007). Teacher questioning in science classrooms: Approaches that stimulate productive thinking. *Journal of Research of Science Teachers*, 44(6), 815-843.
- CLAS Network. (2015, November 18). *Questioning skills and strategies* [Video file]. Retrieved July 1, 2017, from [https://www.youtube.com/watch?v=vEZ-\\_VqaBgM](https://www.youtube.com/watch?v=vEZ-_VqaBgM)
- Costa, A L., & Kallick, B. (2008). *Learning and leading with habits of mind: 16 characteristics for success*. Alexandria, VA: ASCD.
- Costa, A., & Kallick, B. (2015, September). Five strategies for questioning with intention. *Educational Leadership*, 73(1), 66-69.
- Council of Chief State School Officers. (2011, April). Interstate Teacher Assessment and Support Consortium (InTASC) Model Core Teaching Standards: A Resource for State Dialogue. Washington, DC: Author.
- Glasson, S. (2005). Hooked on questioning how the teacher-librarian can change questioning practices in their schools. *International Association of School Librarianship. Selected Papers from the Annual Conference*, 1-16. Retrieved from <http://ezproxy.gardner->

[webb.edu/login?url=http://search.proquest.com.ezproxy.gardner-webb.edu/docview/236100037?accountid=11041](http://webb.edu/login?url=http://search.proquest.com.ezproxy.gardner-webb.edu/docview/236100037?accountid=11041)

Fernand, M. T. (2016). Effects of the question formulation technique on secondary students' argument writing achievement scores (Order No. 10285488). Available from ProQuest Dissertations & Theses Global: The Humanities and Social Sciences Collection. (1909309335). Retrieved from <http://ezproxy.gardner-webb.edu/login?url=http://search.proquest.com.ezproxy.gardner-webb.edu/docview/1909309335?accountid=11041>

Hannel, I. (2009). Insufficient questioning. *Phi Delta Kappan*, 91(3), 65-69. Retrieved from <http://ezproxy.gardner-webb.edu/login?url=http://search.proquest.com.ezproxy.gardner-webb.edu/docview/218535009?accountid=11041>

Hand, B., Wallace, C., & Yang, E-M. (2004). Using a science writing heuristic to enhance learning outcomes from laboratory activities in seventh-grade science: Quantitative and qualitative aspects. *International Journal of Science Education*, 26(2), 131-149.

Kelley-Mudie, S., & Phillips, J. (2016). To build a better question. *Knowledge Quest*, 44(5), 14-19. Retrieved from <http://ezproxy.gardner-webb.edu/login?url=http://search.proquest.com.ezproxy.gardner-webb.edu/docview/1786515019?accountid=11041>

Kohn, A. (2015, September). Who's asking? *Educational Leadership*, 73(1), 16-22.

Learning Heroes. (2014, December 22). *The power of effective questioning* [Video file]. Retrieved July 1, 2017, from [https://www.youtube.com/watch?v=1dO0dO\\_\\_wmE](https://www.youtube.com/watch?v=1dO0dO__wmE)

National Research Council. (2000). *How people learn: Brain, mind, experience and school (expanded edition)*. Committee on Developments in the Science of Learning. J. D. Bransford, A. L., Brown, A., & R. R. Cocking (Eds.), Washington, DC: National Academy Press.

NV AtCEPImperial. 20 Oct. 2015. *The importance of asking good questions*. Retrieved from <https://www.youtube.com/watch?v=kFVcpzSHuDw>.

Right Question Institute (Director). (2016, March 14). *The question formulation technique in a high school science class* [Video file]. Retrieved July 3, 2017, from <https://www.youtube.com/watch?v=9wrIIDNECUQ>

Shell. (2017, February 9). *The Power of questions* [Video file]. Retrieved July 7, 2017, from <https://www.youtube.com/watch?v=5ubko9WeI6M>

The IRIS Center for Training Enhancements. (2005). How people learn: Presenting the learning theory and inquiry cycle on which the IRIS Modules are built. Retrieved on [June 29, 2017] from <http://iris.peabody.vanderbilt.edu/module/hpl/>

Vogler, K. E. (2008, Summer). Asking good questions. Retrieved July 03, 2017, from <http://www.ascd.org/publications/educationalleadership/summer08/vol65/num09/Asking-Good-Questions.aspx>

Vogler, K. E. (2005). Improve your verbal questioning. *The Clearing House*, 79(2), 98-103. Retrieved from <http://ezproxy.gardner-webb.edu/login?url=http://search.proquest.com.ezproxy.gardner-webb.edu/docview/196877902?accountid=11041>  
*What teachers know and should be able to do* [PDF]. (2016). Arlington: National Board for Professional Teaching Standards.

### **Terms of Use**

The learning cycle featured in this project is based on the STAR Legacy Cycle developed by the IRIS Center (2013:<http://iris.peabody.vanderbilt.edu/>) and based on the work of Dr. John Branford and colleagues (National Research Council, 2000).