

Assessing Understanding (9–12)

A Course Module (15 contact hours)

Assessing Understanding examines how you can assess students' knowledge before, during, and after a lesson, and then use what you discover to increase their level of understanding of atomic bonding, chemical reactions, and other topics in physical science.

Course Objectives

- Explore how the knowledge students bring with them to a lesson affect their learning
- Explore techniques for assessing what students know before, during, and after a lesson

Course Syllabus

Session 1: Prior Knowledge

Participants examine how learners' prior experiences and knowledge affect their ability to add new information to their knowledge base.

Additional Course Information

15 contact hours

2nd in a series of 4 online courses (high school/physical science)

Other courses in the series:

1st course: **Inquiry in Physical Science Education** †

3rd course: **Building Understanding**

4th course: **Teaching Effective Lessons**

A full survey course (45 contact hours), **Teaching High School Physical Science**, is also available.

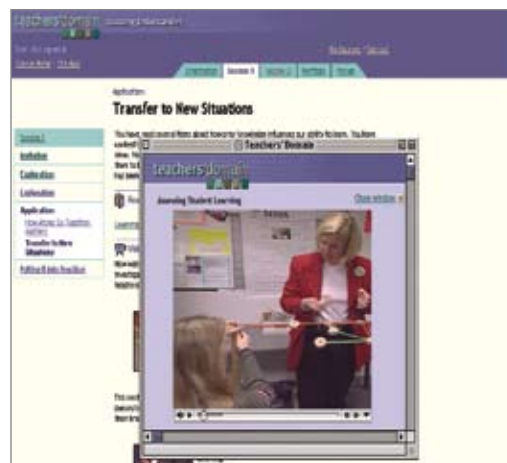
† recommended before taking this course

We recommend courses be taken in order. If this is not possible, it's important to have a basic knowledge of the content and methodology described in the preceding courses.

About Teachers' Domain High School Courses:

Unlike the elementary and middle school courses, all high school courses assume a basic knowledge of the subject matter. These courses emphasize teaching strategies and methodology, particularly inquiry, and the use of technology and rich media in lessons. Science topics within these courses are those that are often found to be challenging to teach and learn. These topics are used to facilitate the study of methodology.

For information about all Teachers' Domain Professional Development courses, visit www.TeachersDomain.org/courseinfo



Exemplary practice video in online course

Session 2: Assessment on Chemical Reactions

Participants explore how specific teaching strategies help them assess what students understand about chemical reactions.