



Understanding Solubility and Density (5–8)

Understanding Solubility and Density advances understanding and effective teaching about how differences in solubility of substances affect density.

Course Objectives

- Explain how dissolving one substance into another affects mass and volume
- Explain how the effects of solubility on density influence real-world examples
- Examine attributes of effective learning environments

Course Syllabus

Session 1: Solubility and Density

Participants investigate changes in density, and in particular how solubility of one substance in another affects the density of the resulting mixture.

Session 2: The Environment for Learning

In a companion methodology session, participants look at solubility and density in the context of how to create a classroom environment that fosters inquiry learning.

Additional Course Information

15 contact hours

Fourth in a series of four courses for teachers of middle school physical science

Other courses in the series:

1st course: **Understanding Energy Transfer**[‡]

2nd course: **Understanding Waves**[‡]

3rd course: **Understanding Heat Transfer**[‡]

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

[‡] recommended before taking this course

We recommend 2-session 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.

For information about all Teachers' Domain Professional Development courses, visit

www.TeachersDomain.org/courseinfo



Exemplary practice video in online course