A series of water molecules, each consisting of one red oxygen atom and two black hydrogen atoms, are arranged in a vertical column on the left side of the slide. They appear to be rising from a flask at the bottom.

Flash-based audio lectures and audio textbooks for the Internet

Mark Bishop

<http://preparatorychemistry.com/>

http://preparatorychemistry.com/Bishop_BCCE_2008.htm



A series of water molecules, each consisting of one red oxygen atom and two black hydrogen atoms, arranged in a vertical column on the left side of the slide. The molecules are positioned at various heights, with some appearing to rise from the flask below.

An Introduction to Chemistry by Mark Bishop

- Textbook intended for use in beginning chemistry courses that have no chemistry prerequisite...for students who are
 - preparing themselves for general college chemistry.
 - seeking to satisfy a science requirement for graduation.
 - in health-related or other programs that require a one-semester introduction to general chemistry.
 - taking high school chemistry.





History

- Originally published by Benjamin Cummings in 2002
- Now published by Chiral Publishing Company with a new model for distribution
 - Traditional printed text
 - Two versions of the text and all of their tools are freely available on the Internet in PDF form.
 - Audio presentations for each section of both versions of the text are also available on the Net.

<http://preparatorychemistry.com/>

Making Audio Files



A decorative graphic on the left side of the slide. It features a vertical column of red and black spheres, resembling atoms or molecules, falling from the top into a glass flask at the bottom. The flask contains a liquid and has volume markings (100, 200, 300, 400, 500) on its side. The background is a light blue gradient.

Tools for Audio Files

- Microphone (with stand and shield)
 - I use an AKG 3000 B microphone (\$349 at Musician's Friend).
- USB audio interface and audio file manipulation software
 - I use Digidesign's MBox 2 with Pro Tools LE (\$449 at Musician's Friend).

<http://www.musiciansfriend.com/>

<http://www.digidesign.com/index.cfm?langid=1&itemid=4893>

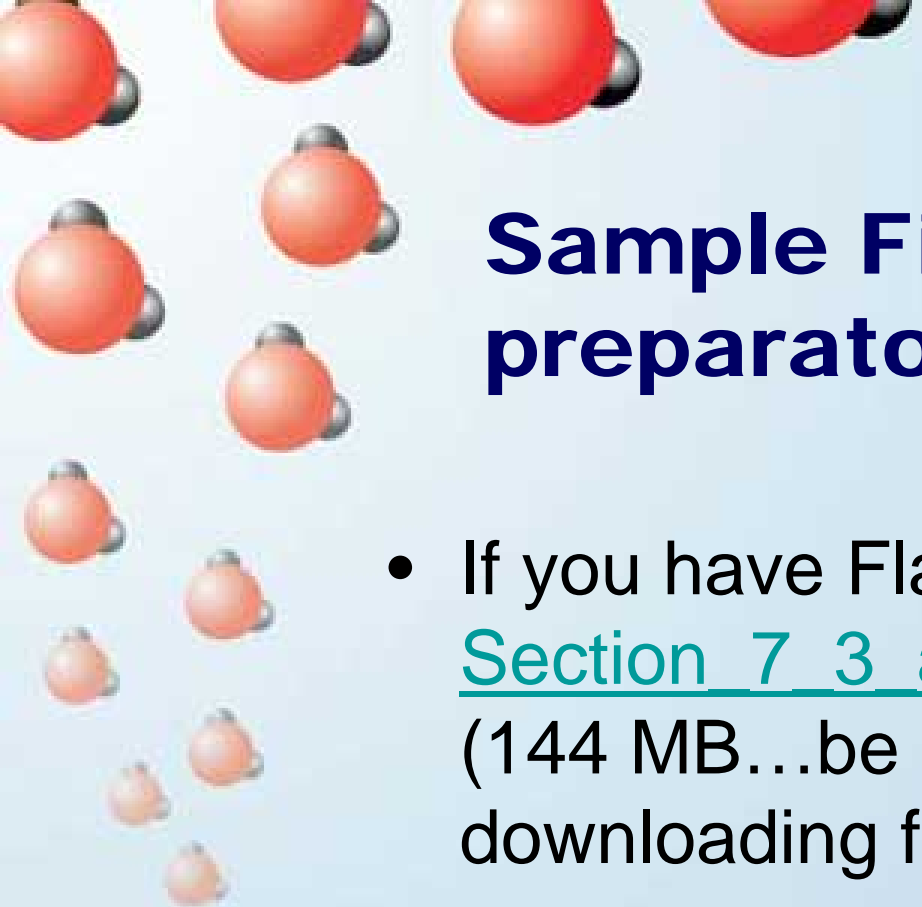
A decorative graphic on the left side of the slide. It features a vertical column of red spheres, each with two smaller black spheres attached to its sides, resembling a molecular model. These spheres are arranged in a descending staircase pattern from the top left towards a flask at the bottom left. The flask is a standard Erlenmeyer flask with a scale on its side, marked from 100 to 500. The background is a light blue gradient.

Web Tools

- Adobe Flash
- Web site creation software (Dreamweaver or other)
- Drawing Program (Illustrator)
- Photo manipulation software (Photoshop)

All of these tools come bundled as Adobe's Creative Suite CS3 Web Premium, which includes Flash, Dreamweaver, Illustrator, Photoshop, and other components. It's \$495.95 for educators at the Academic Superstore.

<http://www.academicsuperstore.com/>

A vertical column of water molecules (H₂O) is shown on the left side of the slide. Each molecule consists of one red oxygen atom and two smaller black hydrogen atoms. The molecules are arranged in a descending line from the top left towards the center of the slide.

Sample Files on CD or preparatorychemistry.com

- If you have Flash 8 (CS2), open the file [Section 7 3 atoms fla.](#)
(144 MB...be patient if you're downloading from the Net.)
- If you have Flash 9 (CS3), open the file [Section 7 3 atoms CS3 fla.](#) (78 MB)



<http://preparatorychemistry.com/>

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