
Computational Chemistry

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Computational (Chemistry Education)

- Other People's Models
 - Using technology to *more effectively* teach chemical concepts
 - Presentation mode
 - Web sites or programs during lecture or lab
 - Initiate and maintain student interest
 - Interactive explorations (what-ifs)
 - Data generation, graphing, and interpretation
 - Software training
 - Offline
 - Homework and labs on student time

(Computational Chemistry) Education

- Building/Changing Models
 - Use model building as a means of exploring and teaching chemical concepts
 - Lab and/or homework activity
 - Students *must understand the science* to do this
 - Provide the basic model
 - Students expand on this, adding complexity
 - “Guided Inquiry” model
 - Could do group and/or individual assignments
 - Students share results with classmates

Advice

- Start small
 - One or two activities
 - Reiterate and improve
 - Add something new
 - “Borrow” from others
 - Let others borrow from you
 - Find people to work with
 - Use good students models!
 - Presentations and publications
 - Spread the word!