Multi-Dimensional Web-Based Learning in Freshman Chemistry

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Abstract: The dimensionality referred to in the title is the many different learning styles of students. The presentation gives information related to a study of how to incorporate the many different learning styles of students into a web-based course in chemistry. We tried to develop a site that accommodates visual, verbal, sensory or intuitive, inductive and deductive, reflective, linear or non-linear, and many other types of learners. Some degree of socialization was developed with components of WebCT and the use of office hours with NetMeeting. The site is still being developed as other topics such as continual assessment and multiple feedback are being incorporated. The site is at http://stern.kennesaw.edu/~lcombs/GenChemI, but some components of it are password protected. An on-line text also incorporates video (Real streaming) in short segments (<10 minutes) presented on various topics encountered in the first semester of general chemistry.