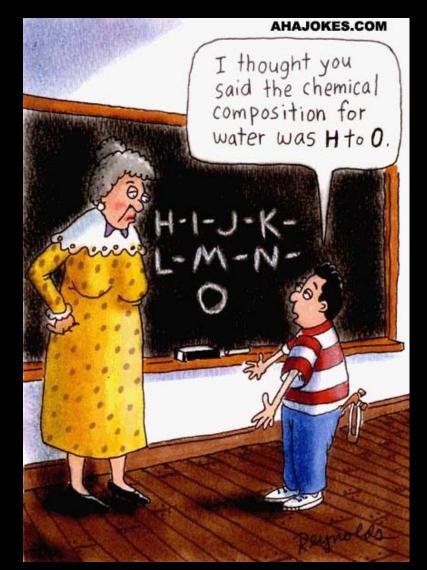
THE ART OF WEB-BASED LEARNING **Past Achievements Present Objectives Future Strategies** By Dr. Helen Cheung **Department of Biochemistry**

OBJECTIVES OF WEB-BASED LEARNING



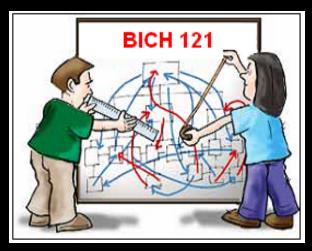
WEB-BASED TEACHING/LEARNING





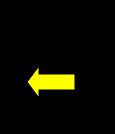
Enhancement of Knowledge Delivery
Reinforcement of Conceptual Understanding
Instigation of Active Learning
Fortification of Macroscopic Overview of Concepts
Facilitation of Communication Channeling

STEPS IN WEB-BASED DEVELOPMENT



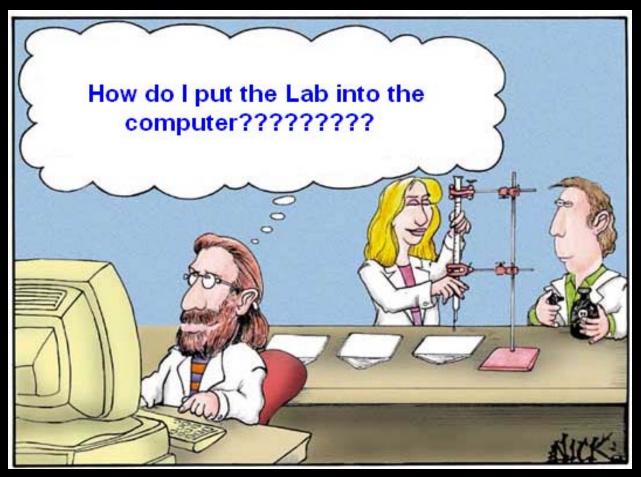








BIOCHEMICAL DISCIPLINES



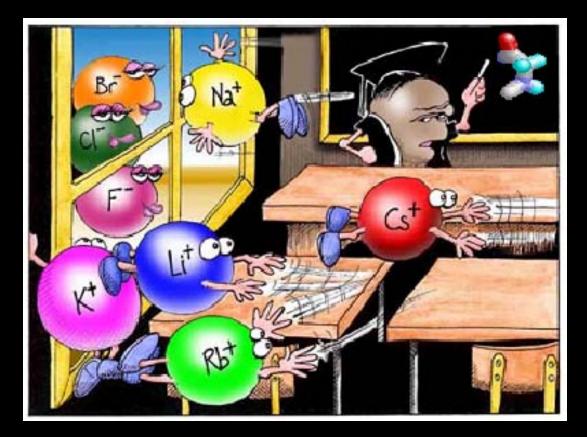
Biochemical Laboratory Techniques (BICH 172/182)

BIOCHEMICAL DISCIPLINES



Intermediary Metabolism (BICH 122)

BIOCHEMICAL DISCIPLINES



Introduction to Biochemistry (BICH 121) **BICH 172/182**



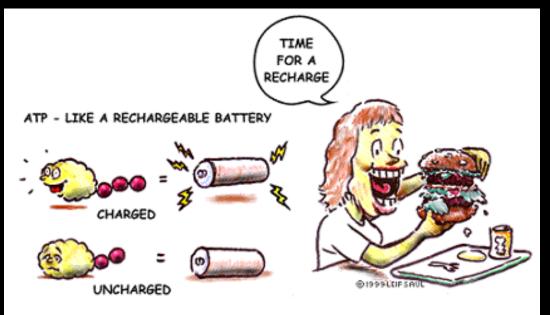
Objectives

Conceptual Learning
Reflective Thinking

Approaches

Development of animation series on biochemical methods
Highlight availability of online resources on interactive tutorials

BICH 122

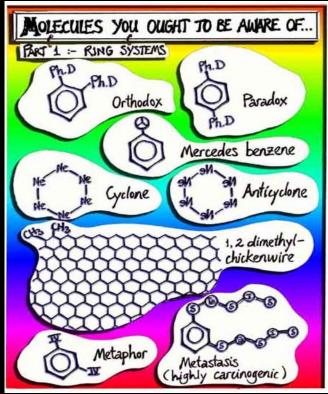


Objectives •Integrative Learning •Reciprocal Learning

Approaches

Construction of Interactive Metabolic Pathways
Development of Interactive Assessments

BICH 121



Objectives •Perceptual Learning

Approaches

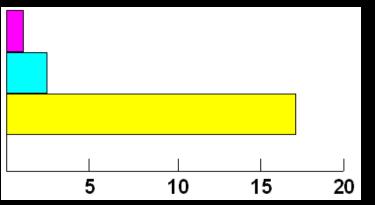
•Use of multi-mediated learning aids for knowledge reinforcement

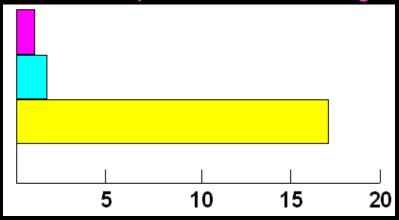
http://ctz106.ust.hk/test/bich121/1_protein_03.swf

PRELIMINARY EVALUATION

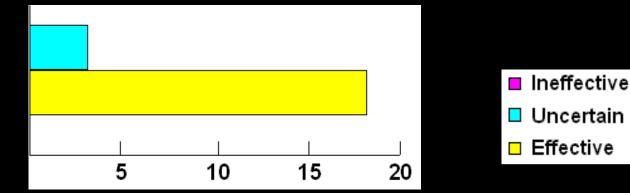
Effectiveness of WEBCT in communication

Effectiveness of animations on conceptual understanding





Overall effectiveness of WEBCT 172/182



FUTURE DIRECTIONS

Development of Virtual Laboratory

Promotion of Online Discussion Forum

