

## **Break-out Session #2**

### **Discovery vs. Concept Re-enforcement Labs**

What is definition of Discovery?

MUN = lab manual of procedures, do as many as you can

Lakehead = analyze this, here's Vogel

Trinidad high school = plan and design

Mount Allison = plan, order, execute and report

UofA = special project students

Student choice on experiments (choose between 3 exp)

Undergraduate research experience

Intentional vs. Unintentional Discovery Labs

- if lecture is behind labs, concept re-enforcement labs become “discovery” labs
- junior students struggle

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### **Discovery vs. Concept Re-enforcement Labs**

- Both types of labs have merits
- Use gradient in discovery vs. concept
  - gradually incorporate discovery through program
- Quality vs. Quantity
  - 2-3 full discovery instead of 10 re-enforcement labs
  - spoon feed procedure to enable focus on observations
- Enhancing pre-lab preparation