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- 1. Concept inventory for population dynamics
- 2. How to use analogies for effective learning
- 3. Changes in student attitudes to biology across the program







# 2-stage (group) exams

- Students complete an exam individually and hand in
- Get together in groups of four and work on the same exam
- Hand in
- Mark is a combination of individual score (75%) and group score (25%)



"The group exams give you a chance to go over your answers to the exam while you still care about the questions."



# Lisa McDonnell



- Misconceptions in genetics (and comparison of UBC students vs. students in a MOOC)
- Retention of conceptual knowledge vs. procedural skills in genetics
- Characteristics of expert vs. novice problem solving behavior in genetics

| <ul> <li>Laura Weir</li> <li>Characterizing student challenges with</li> </ul>  |
|---|
| <ul> <li>constructing logical<br/>arguments in Biology</li> <li>Efficacy of interventions<br/>targeting study skills</li> </ul> |
| <ul> <li>Integrating treatment of<br/>phylogenetics concepts<br/>across cources</li> </ul>                                      |

# Mandy Banet



- Utility of targeted prereading assignments
- Characterizing student challenges with constructing logical arguments in Biology







# Megan Barker



• Effectiveness of "flipped classroom" and "blended learning" strategies

