PULSE Northwest

Partnership for Undergraduate Life Sciences Education
Cohort 4

October 14th-16th, 2016
Visual Summary
Cohort 4 Institutions:
Alaska Pacific University
Bellevue College
Clark College
College of Southern Idaho
Edmonds Community College
Lewis and Clark College
North Seattle College
Northern Wyoming Community College
Oregon State University
University of Alaska - Anchorage
Weber State University
Whitman College

Pulse Northwest Community
Pulse Northwest Community

Cohort 1: 2013
Cohort 2: 2014
Cohort 3: 2015
PULSE Northwest

**Cohort 4 Workshop Agenda**

**Friday, October 14th**
- Welcome!
- Rubrics
- Intro to Systems Thinking

**Sunday, October 16th**
- Poster Presentations
- Taking it Home

**Saturday, October 15th**
- Visioning
- More Systems Thinking

Learn about a systems approach to implementing change and apply to their department

Brainstorm within your team and other teams to develop a plan for change

Assess the current alignment of their curriculum with vision and change

Engage Rubins to assess current situation and monitor progress towards goals

Consider tools and resources for life science education

Develop a cross-institutional community of practice for ongoing support after the workshop

Learn about systems thinking and how to use it successfully
WHY are you here?

- Make a difference!
- Effective teaching
- Support for student learning
- Transform the curriculum
- Become a change agent
- Stay relevant to our society
- Experience pulse community
- Care about UQ ed!
- Improve non-major biology
- Transform for the global future!
Evening check in about what progress and needs for the next day.

Ann Austin’s Talk
Using the Habits Cards

**Systems Thinking: Triangles**

- **Triangles** insights...
  - We are interconnected and interrelated.
  - System structure determines system behavior.
  - "Leverage" = small action → large or broad impact.
  - In a complex system, we are unaware of most interactions.

- **Habits of a Systems Thinker**
  - Seeks to understand the big picture.
  - Observes how elements within systems change over time, generating patterns and trends.
  - Recognizes that a system's structure generates its behavior.
  - Checks results and changes actions if needed: "successive approximation."
  - Recognizes the impact of time delays when exploring cause and effect relationships.
  - Pays attention to accumulations and their rates of change.
  - Identifies the circular nature of complex cause and effect relationships.
  - Surfaces and tests assumptions.
  - Makes meaningful connections within and between systems.
  - Changes perspectives to increase understanding.
  - Considers how mental models affect current reality and the future.
  - Uses understanding of system structure to identify possible leverage actions.
  - Considers an issue fully and resists the urge to come to a quick conclusion.
  - Considers short-term, long-term and unintended consequences of actions.

- **Guiding Principles**
  - Informality
  - Curiosity
  - Learning
  - Abundance
  - Mutual Support
  - Resilience

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IDEAS that WORK:
Iceberg for systems analysis
dynamic governance
shifting the conversation
Team Time
One word check-in's throughout workshop

How you arrived and how you left Friday.