Team-Based Learning

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Team-Based Learning (TBL) is one example of a flipped classroom

- Highly structured

- Small groups (5-7 is ideal)

- Module-based
  - Individual pre-work
  - Individual readiness assurance-iRAT
  - Team readiness assurance-tRAT
  - Clarification session
  - Application exercises
  - Immediate feedback

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Out of class Usu. 30-50 pages	In class Usu. 1 to 1.5 hours	In class Usu. 3 to 5 class meetings
Readings for preparation	Readiness Assurance Process: Individual test → Same test completed as a team → Appeals → Mini-lecture	Application activities Teams work on a significant problem that requires them to make a significant choice. All teams work on the same problem and report simultaneously.

Structure of a team-based learning module

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Immediate Feedback Assessment Technique

Application Activities: 4-S method

1. <u>Significant</u> Question/Problem
2. <u>Same</u> Question/Problem
3. <u>Specific</u> Choice required
4. <u>Simultaneous</u> Report

Let's brainstorm ideas for application activities

- Place-based problems
  - Environmental disruptions
  - Population effects
  - Heritage/conservation sites
  - Declining biodiversity
- Issues in higher education
  - Effectiveness of benchmarks of learning
  - Academic freedom
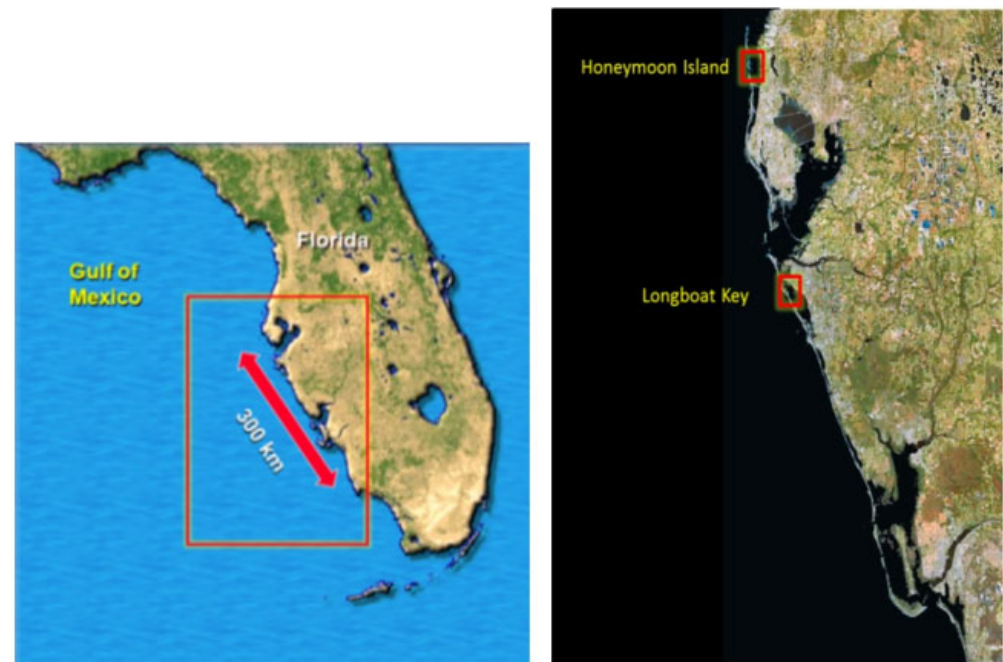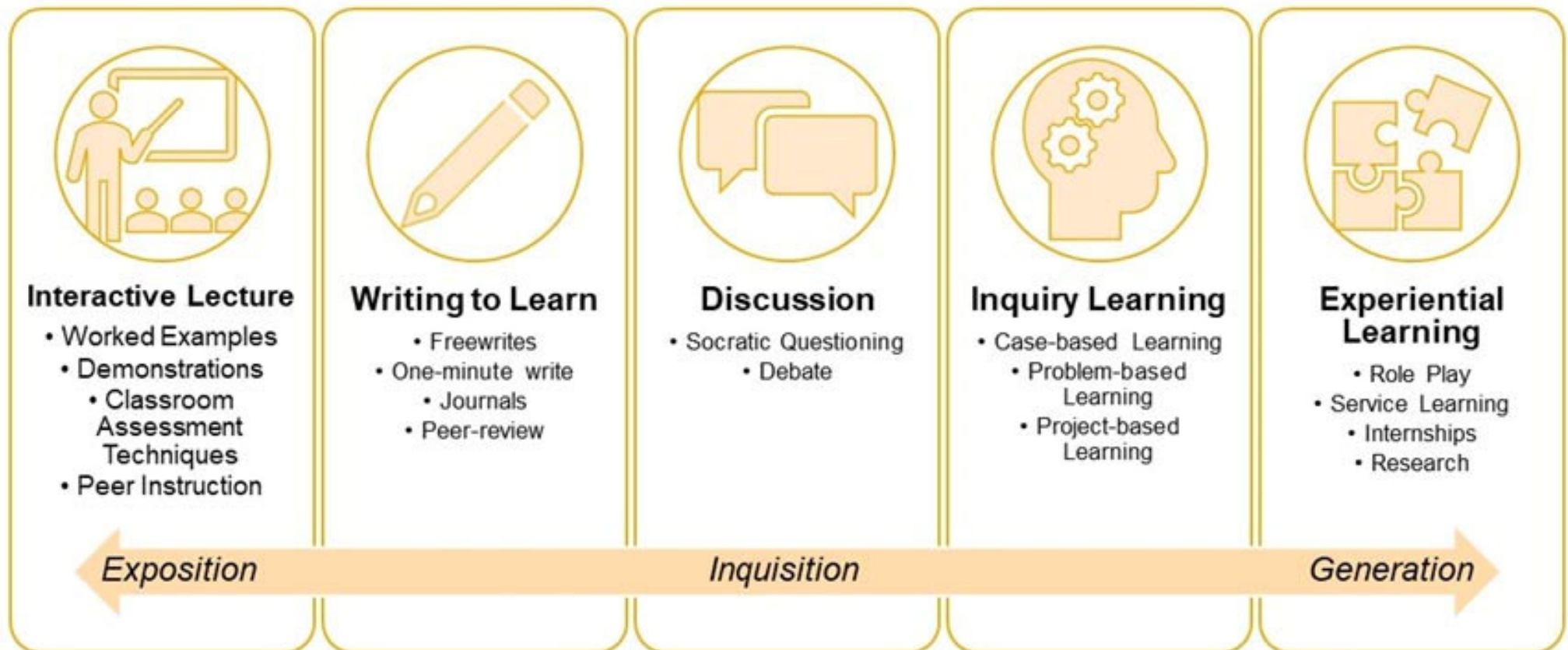 - Viewpoint diversity
  - Student resilience

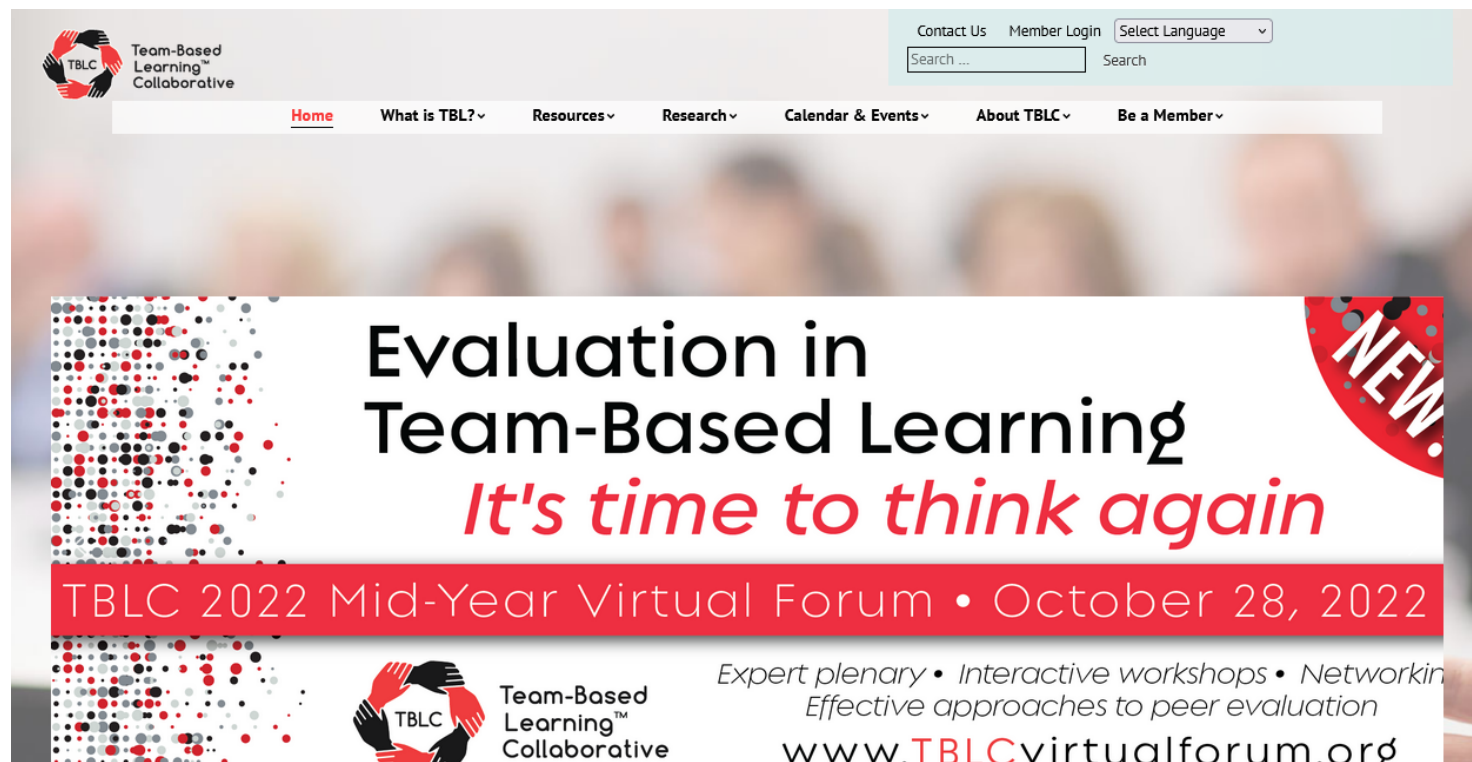**Figure 1**. Study area and locations of case studies

TBL can replace or complement other teaching methods

Interactive Lecture
- Worked Examples
- Demonstrations
- Classroom Assessment Techniques
- Peer Instruction

Writing to Learn
- Freewrites
- One-minute write
- Journals
- Peer-review

Discussion
- Socratic Questioning
- Debate

Inquiry Learning
- Case-based Learning
- Problem-based Learning
- Project-based Learning

Experiential Learning
- Role Play
- Service Learning
- Internships
- Research

Exposition → *Inquisition* → *Generation*

Overview of TBL Planning

1. Create a strategy for group formation
2. Select the preparatory work: readings, videos, online activities, etc.
3. Create the Readiness Assurances
    1. iRATs
    2. tRATs
    3. Appeals
    4. Clarifying mini-lectures
4. Design the Application Activities using the 4-S model
5. Identify opportunities for feedback and reflection
6. Schedule the sequence of the module(s)

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Check out the TBL Collaborative at www.teambasedlearning.org

Thank you