Trip to the Beach
- **Course**: Biology/Ocean Sciences
- **Grades**: 9-12
- **Unit**: Waves and Tides
- **Lesson Topic**: How waves and tides affect organisms living on the shoreline
Objectives
Key Ideas

- Placement along shoreline dictates what organisms live where
- Need to withstand wave action and low tide
- Zoning
Cognitive Objectives

- Identify zones
- Understand why
Affective Objectives

- Work in small groups
- Generate ideas
- Respect others’ and the environment
Materials

- Field trip to the beach arriving at high tide
- Worksheet
- Pen/pencil
Lesson
Invitation/Initiation

- Divide students in small groups.
- Give and explain handouts.
Exploration

- Explore and write down what they see.
Invention

- Student Hypotheses
- Group Discussion
Application

- Lead and direct group discussion
- Why different organisms are found in different places
- Zones
Closure

- Have students recap what we found.
Assessment/Evaluation

- Pass in worksheet
Follow-up Lesson

- Discuss biology of organisms at each zone
- What allows them to live at their zone
Connection to Next Lesson

- Just learned that zones exist, now learn why