

# Field Study: Coastal Management and Beach Dynamics

## Activity Outline

**Year 7-10**

**Aim:**

Waves, wind and currents shape our beaches every day and is one of the most rapidly changing physical environments on Earth. Many people utilize the coast for a wide array of purposes which has an effect on this environment. In this activity students will investigate the strong links between society and coastal change and gain a better understanding of this environment and what causes it to change its state. Students will gain this understanding through practical and theoretical experience.

**Key Understandings:**

- The impact of humans on local aquatic and terrestrial environments will differ with locality.
- The Activities of humans can cause systematic habitat alteration.
- The distribution, diversity and numbers of plants and animals found in ecosystems are determined by biotic and abiotic factors.
- Each local aquatic or terrestrial ecosystem is unique.

**Key terms:**

erosion, waves, wind, currents, habitat, community, diversity, ecology, light, rock cycle, sedimentary rock, igneous rock, metamorphic rock, management, ecosystem, environment, interaction, conservation.

**Curriculum Content:**

Science:

Year 8: ACSSU150, ACSIS139, ACSIS140, ACSIS141, ACSIS145, ACSIS234

Year 9: ACSSU175, ACSSU176, ACSIS164, ACSIS165, ACSIS166, ACSIS170, ACSIS171

Year 10: ACSIS198, ACSIS199, ACSIS200, ACSIS203, ACSIS204, ACSIS205, ACSIS208

Geography:

Year 7: ACHGK042, ACHGK043, ACHGS047, ACHGSS048, ACHGS05, ACHGS052

Year 8: ACHGK051, ACHGK051, ACHGK052, ACHGS059, ACHGS062

**Key competencies:**

Working scientifically

Collecting, analysing and organising information

Communicating ideas and information

Using technology

Working with others and in teams