

Field Study: Birds of our coast

Activity Outline

Year 7-10

Aim

Within this activity students examine the ecology of coastal sea and shore birds within their natural habitats and gain an appreciation for the diverse range of species present. Students examine the varying characteristics and adaptations that sea and shore birds possess that enable them to live successfully around water. Students will observe, identify and record a variety of local bird species. Students will look at the whole ecosystem level and identify both positive and negative links between the study sites and adjacent ecosystems.

Key Understandings

- Ecosystems consist of both living and non-living components.
- Living things can be differentiated and identified using various characteristics.
- Energy continually flows through ecosystems.
- Matter cycles within ecosystems (i.e. carbon, oxygen and nitrogen)
- Human development and natural events impact on the flow energy and matter through different ecosystems.
- Appropriate ecosystem management relies upon an understanding of the varying relationships both within and between ecosystems.

Key terms

Abiotic, biotic, physiology, flight, lift, gravity, thrust, drag, adaptation, competition, herbivore, omnivore, carnivore, taxonomy, phylum, community, diversity, abundance, distribution, disturbance, ecology, organisms, interaction, migratory species, salinity, water, ecosystem, environment, human impact, research, sustainable management,

NSW NESA – Science Years 7-10

Year 7: ACSSU112, ACSIS125, ACSIS130, ACSIS131, ACSIS133

Year 8: ACSIS140, ACSIS145, ACSIS234

Year 9: ACSSU175, ACSSU176, ACSIS165, ACSIS170

Year 10: ACSIS198, ASCIS199, ASCIS204

Key competencies

- Working scientifically
- Collecting, analysing and organising information
- Communicating ideas and information
- Using technology
- Using mathematical ideas and techniques
- Working with others and in teams