

NSW WATER BUG SURVEY

SCIENCE STAGE 4



**Infrastructure, Planning
and Natural Resources**

AIM: To promote student awareness of water quality.

OBJECTIVES:

Knowledge and Understanding: Learning Processes

- Students will develop their knowledge and understanding of the process of investigation that people use to develop reliable insights into natural environments.

Skills:

- Students will be able to investigate natural environments.

Values and Attitudes:

- Students will engage in learning experiences which will enable them to develop positive and informed values and attitudes towards themselves, others, technology and the environment.

CURRICULUM LINKS

SCIENCE & TECHNOLOGY OUTCOMES

Prescribed Focus Area:

4.5 describes areas of current scientific research

Domain:

4.8 describes features of living things

4.10 identifies the factors affecting survival of organisms in an ecosystem

Skills:

4.14 follows a sequence of instructions to undertake a first-hand investigation

4.15 uses given criteria to gather first-hand data

4.22 undertakes a variety of team and individual tasks with guidance

Values and attitudes:

4.26 recognises the role of science in providing information about issues being considered and in increasing understanding of the world around them

CURRICULUM LINKS

ENVIRONMENTAL EDUCATION OBJECTIVES Students will develop:

Knowledge and Understanding about:

K1 the nature and function of ecosystems and how they are interrelated

K2 the impact of people on the environment

K4 the principles of ecologically sustainable development

K5 career opportunities associated with the environment

Skills in:

S1 applying technical expertise within an environmental context

S2 identifying and assessing environmental problems

S3 communicating environmental problems to others

S5 adopting behaviours and practices that protect the environment

Values and Attitudes:

V1 a respect for life on Earth

V3 a commitment to act for the environment by supporting long-term solutions to problems

ASSESSMENT

- Field work
- Group work participation
- Observations of skills
- Discussion