

BIRDS IN BACKYARDS SYLLABUS LINKS

K-6 Science and Technology

Content Strands

	Early Stage 1	Stage 1	Stage 2	Stage 3
Living Things LT	LT ES1.3 Identifies ways in which living things are different and have different needs.	LT S1.3 Identifies and describes ways in which living things grow and change.	LT S2.3 Identifies and describes the structure and function of living things and ways in which living things interact with other living things and their environment.	LT S3.3 Identifies, describes and evaluates the interactions between living things and their effects on the environment.

Learning Processes

	Early Stage 1	Stage 1	Stage 2	Stage 3
Investigating INV	INV ES1.7 Investigates their surroundings by observing, questioning, exploring and reporting.	INV S1.7 Conducts guided investigations by observing, questioning, predicting, collecting and recording data, and suggesting possible explanations.	INV S2.7 Conducts investigations by observing, questioning, predicting, testing, collecting, recording and analysing data, and drawing conclusions	INV S3.7 Conducts their own investigations and makes judgements based on the results of observing, questioning, planning, predicting, testing, collecting, recording and analysing data, and drawing conclusions.
Using Technology UT	UT ES1.9 Identifies and uses a limited range of equipment, computer-based technology, materials and other resources when undertaking exploration and production.	UT S1.9 Selects and uses a range of equipment, computer-based technology, materials and other resources to undertake an investigation or design task.	UT S2.9 Selects and uses a range of equipment, computer-based technology, materials and other resources with developing skill to enhance investigation and design tasks.	UT S3.9 Evaluates, selects and uses a range of equipment, computer-based technology, materials and other resources to meet the requirements and constraints of investigation and design tasks.

Values and Attitudes Outcomes

- VA2** Exhibits curiosity and responsiveness to scientific and technological ideas and evidence.
- VA3** Initiates scientific and technological tasks and challenges and perseveres with them to their completion.
- VA4** Gains satisfaction from their efforts to investigate, to design, to make, and to use technology.
- VA5** Works cooperatively with others in groups on scientific and technological tasks and challenges.
- VA6** Shows informed commitment to improving the quality of society and the environment through science and technology activities.
- VA7** Appreciates contributions made by individuals, groups, cultures and communities to scientific and technological understanding.

K-6 Human Society and its Environments

Care of Environments

Early Stage 1	Stage 1	Stage 2	Stage 3
<ul style="list-style-type: none">• places and environments that are clean and safe• care of natural things in the immediate environment	<ul style="list-style-type: none">• personal and shared values and responsibilities towards features, sites, places and environments• care of resources, including waste disposal	<ul style="list-style-type: none">• management and care of features, sites, places and environments	<ul style="list-style-type: none">• ecologically sustainable development of environments• different perspectives about the maintenance and improvement of environments• selected natural or built heritage sites in the world, through case studies• explanations of natural phenomena and the environment in Aboriginal Dreaming stories

7 -10 Science (Stages 4 and 5)

Prescribed Focus Area

- 4.2 A student uses examples to illustrate how models, theories and laws contribute to an understanding of phenomena.
- 5.2 A student describes the processes that are applied to test and validate models, theories and laws.

Knowledge and Understanding

- 4.8 A student describes features of living things.
- 4.8.2 classification
 - a) classify living things according to structural features and identify that they have patterns of similarities and differences
- 4.10 A student identifies factors affecting survival of organisms in an ecosystem.
- 4.10 ecosystems
 - a) describe some adaptations of living things to factors in their environment
- 5.10 A student assesses human impacts on the interaction of biotic and abiotic features of the environment.
- 5.10 ecosystems
 - a) distinguish between biotic and abiotic features of the local environment
 - b) describe the importance of cycles of materials in ecosystems
 - c) describe some impacts of human activities on ecosystems.
- 5.11 A student analyses the impact of human resource use on the biosphere to evaluate methods of conserving, protecting and maintaining Earth's resources.
- 5.11.2 waste from resource use
 - c) discuss strategies used to balance human activities and needs in ecosystems with conserving, protecting and maintaining the quality and sustainability of the environment.

Skills

- 4.13 A student clarifies the purpose of an investigation and, with guidance, produces a plan to investigate a problem.
- 4.14 A student follows a sequence of instructions to undertake a first-hand investigation.
- 4.15 A student uses given criteria to gather first-hand data.
- 4.16 A student accesses information from identified secondary sources.
- 4.17 A student evaluates the relevance of data and information.
- 4.18 A student with guidance, presents information to an audience to achieve a particular purpose.
- 4.19 A student draws conclusions based on information available.
- 4.21 A student uses creativity and imagination to suggest plausible solutions to familiar problems.
- 4.22 A student undertakes a variety of individual and team tasks with guidance.
- 5.13 A student identifies a problem and independently produces an appropriate investigation plan.
- 5.14 A student undertakes first-hand investigations independently with safety and competence.
- 5.15 A student gathers first-hand data accurately.
- 5.16 A student accesses information from a wide variety of secondary sources.
- 5.17 A student explains trends, patterns and relationships in data and/or information from a variety of sources.
- 5.18 A student selects and uses appropriate forms of communication to present information to an audience.
- 5.19 A student uses critical thinking skills in evaluating information and drawing conclusions.
- 5.21 A student uses creativity and imagination in the analysis of problems and the development of possible solutions.
- 5.22 A student plans, implements and evaluates the effectiveness of a variety of tasks independently and as a team member.