

P-6 SCIENCE



CHOOSING THE RIGHT PROGRAM

SECOND NATURE EDUCATION

www.sn-ap.com.au





WHERE TO START

Second Nature offers a huge variety of **customised**, educational experiences. These include incursions, excursions and **field studies**, as well as domestic and international tours. The first step is to decide how far you are willing to **travel** with us!

WHAT YOU WANT

You already know what you'd like your students to take away from their trip with Second Nature. Maybe the outcomes are **experiential**, maybe they are commitments to objectives in the Australian **curriculum**, or maybe they are simply to collect **primary data**. These will depend on the year level and unit your students are studying. All of our programs can be **tailored** to your needs, and this resource will direct you towards programs appropriate to your class' learning stage.



PRIMARY

Prep

Science Programs for Prep Students

With prep comes exciting teaching opportunities. The impressions you make on a student at this key, developmental stage of their life will become cornerstones for their learning journey. Second Nature Education hopes to ingrain a passion for science and the natural world into the minds of young people. For prep, our approach is mainly experiential and involves using the senses to appreciate and understand natural systems. We can offer:

Incursions or field work programs within school grounds

Single day field trips to local, natural environments

Aboriginal cultural programs targeting cross-curricular objectives

The following is an example of a program we offer to prep students...



Field Trip: Sensing the Environment

Single day trip to a local park or greenspace, interchangeable with an incursion service. Suggested activities are: tree planting; bird feeding; silent survey that encourages students to detect and reflect on input from all the senses; field sketch; and a picnic. The following objectives will be addressed, along with key science enquiry skills.

- Living things have basic needs, including food and water (ACSSU002)
- Daily and seasonal changes in our environment, including the weather affect everyday life (ACSSU004)
- Science involves exploring and observing the world using the senses (ACSHE013)



2 Hours



Work Booklets



Pre/Post Activities



**\$8-15/
Student**

PRIMARY

Year 1

Science Programs for Year 1 Students

The transition from prep to year 1 relies on a level of perceptiveness that allows students to recognise differences between people and things, and acknowledge changes in the environment around them. This is the first step towards independence, and Second Nature tries to encourage this with activities that challenge students and encourage curiosity. We can offer:

Incursions or field work programs within school grounds

Single day field trips to local, natural environments

Aboriginal cultural programs targeting cross-curricular objectives

The following is an example of a program we offer to year 1 students...



Field Trip: Getting to Know the Environment

Single day trip to a local creek or waterway. Suggested activities are: sketching an animal; comparing sketches to friends and reflecting on why animals look different; identifying animals; discussing the habitats of these animals; field sketch showing at least two different environments; and learning about bio-indicators. The following objectives will be addressed, along with key science enquiry skills:

- Living things have a variety of external features (ACSSU017)
- Living things live in different places where their needs are met (ACSSU211)
- Observable changes occur in the sky and landscape (ACSSU019)
- Science involves asking questions about, and describing changes in, objects and events (ACSHE021)
- People use science in their daily lives, including when caring for their environment and living things (ACSHE022)



3 Hours



Work Booklets



Pre/Post Activities



\$8-15/ Student

PRIMARY

Year 2

Science Programs for Year 2 Students

This is the year! Students in year 2 are starting to understand science as a concept, and you may notice the career aspirations of some of your students changing from ballerina to biologist. Your year 2 class will begin to understand their role in natural and man-made systems, making them suitable pupils for lessons in human impact, conservation and sustainability. Second Nature places a huge emphasis on these principles in all of our programs as a way of fostering an attitude of stewardship in young people. We can offer:

Incursions or field work programs within school grounds

Single day field trips to natural environments

Aboriginal cultural programs targeting cross-curricular objectives

The following is an example of a program we offer to year 2 students...



Field Trip: Earth's Changing Environments

Single day trip to a mangrove forest. Suggested activities are: finding propagules and saplings; drawing the life cycle of a mangrove tree; identifying snails; witnessing a change in tide; and discussing human impacts. The following objectives will be addressed along with key science enquiry skills:

- Living things grow, change and have offspring similar to themselves (ACSSU030)
- Earth's resources, including water, are used in a variety of ways (ACSSU032)
- Science involves asking questions about, and describing changes in, objects and events (ACSHE034)
- People use science in their daily lives, including when caring for their environment and living things (ACSHE035)

 **4 Hours**

 **Work Booklets**

 **Pre/Post Activities**

 **\$10-20/ Student**

 **Charter (Optional)**

 **Meals (Optional)**

PRIMARY

Year 3

Science Programs for Year 3 Students

The year 3 science curriculum is about not only understanding where humanity fits into natural systems, but also understanding how these systems work as a whole. Students will learn about how living and non-living things interact, and how people might disturb these interactions (ecological disturbances). Second Nature encourages them to observe relationships between environmental factors, and notice patterns in the predictable reactions of organisms to environmental change. We can offer:

Incursions or field work programs within school grounds

Single day field trips to natural environments

Aboriginal cultural programs targeting cross-curricular objectives

The following is an example of a program we offer to year 3 students...



Field Trip: Patterns in Nature

Single day trip to a local eucalypt forest. Suggested activities are: making a table of biotic (living) and abiotic (non-living) factors; identifying trees and rocks; learning about nocturnal animals; discussing how all of these factors work together as a system; and discussing how human interference with one of these factors can affect the system. The following objectives will be addressed along with key science enquiry skills:

- Living things can be grouped on the basis of observable features and can be distinguished from non-living things (ACSSU030).
- Earth's rotation on its axis causes regular changes, including night and day (ACSSU048)
- Science involves making predictions and describing patterns and relationships (ACSHE050)
- Science knowledge helps people to understand the effect of their actions (ACSHE051)



4 Hours



Work Booklets



Pre/Post Activities



\$10-20/
Student



Charter
(Optional)



Meals
(Optional)

PRIMARY

Year 4

Science Programs for Year 4 Students

The increasing independence of year 4 students opens up the door for multi-day camp opportunities. We offer fantastic programs at locations such as Stradbroke Island and Binna Burra. At this year level, students will acquire a more comprehensive understanding of the workings of natural systems. They will learn how to record information about patterns and relationships between organisms and their environments, and to use this information to make predictions. We can offer:

Incursions or field work programs within school grounds

Single day field trips to natural environments

Multi-day camp programs

Aboriginal cultural programs targeting cross-curricular objectives

The following is an example of a program we offer to year 4 students...



Field Trip: Natural Cycles

Single day trip to a local rainforest. Suggested activities are: looking for propagules and saplings; drawing the life cycle of a rainforest tree; finding an example of animal reproduction (e.g. spider); drawing the life cycle of this animal; listing the needs of plants and animals; observing the challenges they face to survive in the rainforest; drawing a food web; discussing geological and human changes to the rainforest environment. The following objectives will be addressed along with key science enquiry skills:

- Living things have life cycles (ACSSU072)
- Living things, including plants and animals, depend on each other and the environment to survive (ACSSU073)
- Earth's surface changes over time as a result of natural processes and human activity (ACSSU075)
- Science involves making predictions and describing patterns and relationships (ACSHE061)
- Science knowledge helps people to understand the effect of their actions (ACSHE062)



6 Hours



Work Booklets



Pre/Post Activities



\$15-25/
Student



Charter
(Optional)



Meals
(Optional)

PRIMARY

Year 5

Science Programs for Year 5 Students

During year 5, students will be introduced to the rationale behind the scientific process. This may be the first opportunity they get to collect information that can be used as evidence to support scientific conclusions. The science program of year 5 demands more maturity and attention than former years because students progress from understanding purely what is happening in a system to also understanding why. Second Nature seeks to use this deeper level of understanding to impassion students towards finding solutions to current environmental issues.

Incursions or field work programs within school grounds

Single day field trips to natural environments

Multi-day camp programs

Aboriginal cultural programs targeting cross-curricular objectives

The following is an example of a program we offer to year 5 students...



Field Trip: Natural Processes

Single day trip to a local beach with rocky shore. Suggested activities are: observing adaptations of animals on the rocky shore; understanding how the sun's energy enters a system in the context of a food web; looking at tidal activity as the result of lunar pull; guided investigation of a factor affected by zonation; talk from a local Indigenous person on traditional use of beach resources; looking at issues caused by erosion; and discussing potential solutions. The following objectives will be addressed along with key science enquiry skills:

- Living things have structural features and adaptations that help them to survive in their environment (ACSSU043)
- The earth is part of a system of planets orbiting around a star (the sun) (ACSSU078)
- Science involves testing predictions by gathering data and using evidence to develop explanation of events and phenomena (ACSHE081)
- Important contributions to the advancement of science have been made by people from a range of cultures (ACSHE082)
- Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples' lives (ACSHE083)
- Scientific knowledge is used to form personal and community decisions (ACSHE217)



6 Hours



Work Booklets



Pre/Post Activities



\$10-20/ Student



Charter (Optional)



Meals (Optional)

PRIMARY

Year 6

Science Programs for Year 6 Students

Throughout year 6, it is important to emphasise the wonder and potential in scientific discovery so students are excited to continue their science journey into high school. This is why the Australian curriculum expands their perspectives by examining global environmental change, and emphasising the corporation between people of different backgrounds and cultures to ensure human change is sustainable. This is an exciting area of science because it affects students' lives directly. An adventure with Second Nature could be part of the fun! We can offer:

Incursions or field work programs within school grounds

Single day field trips to natural environments

Multi-day camp programs

International tours

Aboriginal cultural programs targeting cross-curricular objectives

The following is an example of a program we offer to year 6 students...



Field Trip: The Living Planet

Single day trip to a local rainforest environment, interchangeable with a multi-day camp service. Suggested activities are: drawing life cycles, food chains and food webs; making a table of adaptations; looking at ecological disturbances (e.g. fallen trees); guided investigation of succession in response to a disturbance; talk from a local Aboriginal person about the traditional use of rainforest resources; identifying issues currently faced by rainforests, especially as a result of climate change; and discussing potential solutions. The following objectives will be addressed along with key science enquiry skills:

- The growth and survival of living things are affected by physical conditions of their environment (ACSSU094)
- Sudden geological changes or extreme weather conditions can affect Earth's surface (ACSSU096)
- Science involves testing predictions by gathering data and using evidence to develop explanation of events and phenomena (ACSHE098)
- Important contributions to the advancement of science have been made by people from a range of cultures (ACSHE099)
- Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples' lives (ACSHE0100)
- Scientific knowledge is used to form personal and community decisions (ACSHE220)



**6 Hours
or 2 Days**



**Work
Booklets**



**Pre/Post
Activities**



**\$15-25/
Student**



**Charter
(Optional)**



**Meals
(Optional)**

✈ INTERNATIONAL TOURS ✈

available for year 6 students and above!

Second Nature offers amazing opportunities for international science learning and cultural immersion across 32 destinations in Asia, Europe, North America, South America and North Africa! One of our education officers will work with you to design an itinerary that covers syllabus objectives and provides an unforgettable experience for your students. All trips include highly trained facilitators, risk assessments, travel insurance and a money-back guarantee. Get in touch with us today to learn more about travel opportunities for your school.





TAILORED FOR YOU

NO MATTER WHAT YEAR LEVEL, NO MATTER WHAT DESTINATION...

All of our excursions can be tailored to the needs of your school. This means that the excursions you have read about here can be adapted for any year level, ecosystem, length of time or distance of travel. If you would like to book one of our programs, make sure to mention any special requests in your enquiry. We will be happy to oblige.

ABOUT US

We offer a resource for teachers wanting to expand their students' understandings of key science concepts beyond the classroom to real-life environments (such as rainforests, mangroves, rocky shores & catchments). We provide: transport, catering, accommodation, guides, risk assessments, equipment, pre/post excursion activities & work booklets.

GET IN TOUCH

MAIN OFFICE

30 Esperance Close
Elanora, QLD 4221

CONTACT

T: 07 5559 5977
M: 04 0102 3133
info@sn-ap.com.au

ON THE WEB



www.sn-ap.com.au