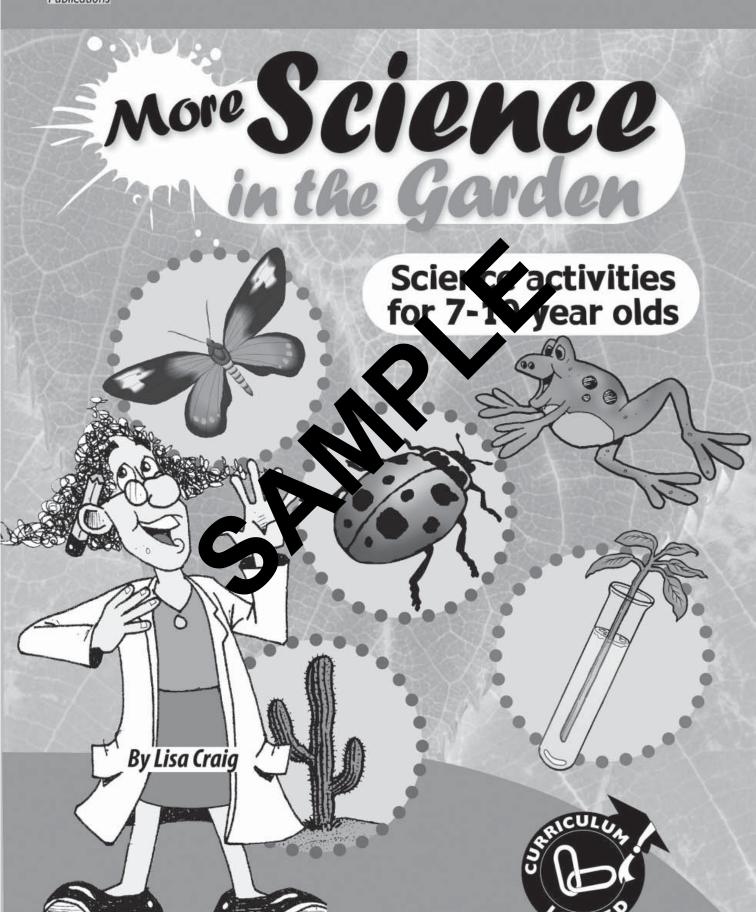


Ebook Code: REAU4052

7-10 YEARS





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Teachers' Notes

More Science in the Garden is designed to encourage primary children to engage with the living laboratory that they can find on their classroom doorstep. As well as being accessible, the garden encourages close encounters with fuzzy critters, flowering plants, seeds, trees and leaves.

Many of the activities in this book are practical and this should motivate children to learn, remember and have fun while 'doing'.

The resources needed for the practical activities are easy to assemble and the tasks are simple to set up and can be simplified or made more difficult for students of different age groups and abilities.

All of the activities are curriculum linked and are created to develop scientific thinking, skills and processes.

When completing the activities, the children will expl

- the anatomy of plants, insects a animals
- the classification of living the
- the garden as an ecologic system
- plant, insect and anh. stadas tions
- garden biodive
- the conservation of attack resources
- health, nu tile. dsafety
- field ork still es.

A set of teaching notes accompany each activity sheet. The teaching notes include an deep of the concepts covered in each lesson, detailed step-by-step instructions, suggestions for extension activities and recommended website resources.

Particular effort has been made to develop scientific literacy through a variety of text types and specific skills, for example: drawing and labelling diagrams, note-making, using graphic organisers, report writing and framing enquiry questions.

Wherever appropriate, links to other content areas of the curriculum have been incorporated. Answers can be found at the back of the book.





Teachers' Notes

The Right Place

Concepts and Objectives:

- · Recognising scientific words.
- Sorting words into scientific categories.

Teaching Ideas:

- 1. Model the task with an example. Place the following, words on the board: dog, red, canary, cat, yellow, blue, hamster are in. Then draw two rectangles on the board and ask the children to prove words into two groups. After sorting the words, and the class and decomposed that belong to the same categor in each rectangle. To round off, ask what the words in each set have a sommon (colours and pets/animals).
- 2. Distribute the activity sheet and each be address to sort the words into the correct categories. Characteristic and ork individually or in pairs.
- 3. As an extension to the stivity sudents could identify the animals that the sounds and single stivity relate to.

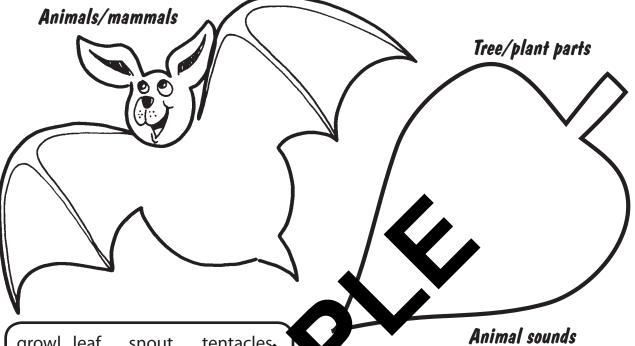


Activity

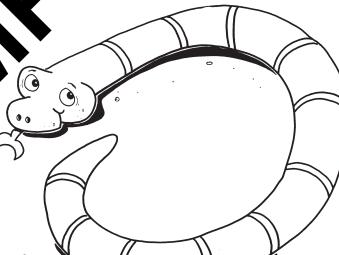
The Right Place

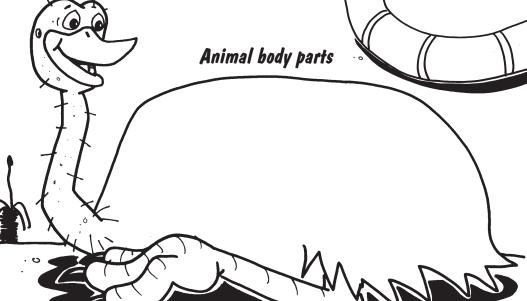
■ Put the words in their right place.





growl leaf tentacles snout bandico purr tweet seed echidna poss bark rat branch claw shell wer hiss bat wing bleat fruit









Teachers' Notes

Life Cycle Of A Ladybird

Concepts and Objectives:

- Describing a person's lifecycle.
- Understanding the process of metamorphosis in invertebrates and sequencing the stages in a ladybird's lifecycle.
- Identifying parts of a ladybird and understanding the food chain of a ladybird.



Materials:

• Pictures of people at various ages, copy of Eric Carle's, The Bad-Tempered Ladybird.

Teaching Ideas:

- Cut out pictures of people of various ages from magazine and newspapers and put them in envelopes for small groups.
- 2. Ask the children to sequence the picture are the pagest to the oldest. Explain that this is the cycle of life for pagest to the children's own families.
- 3. Hand out the sheet and ask the shill are sequence the stages in the ladybird's life, paying attention to the tine of the seach stage. Go through the cycle using time markers: first, then, late fine by Explain the term metamorphosis. They can copy this word and the sping on to their sheets.
- **4.** Identify other animals where to through this process such as butterflies and dragonflies, ask the studen to list two of these animals on their sheets.
- ladybirds. Check the y can name as many parts of a ladybird's body as possible (head, wings, antennae, legs, mouthparts, eyes). Ask what ladybirds do in the garden (help gardeners by eating pests), ask what they eat (aphids, mealy bugs, mites) and what might eat ladybirds (not many predators eat ladybirds because they excrete a foul-tasting chemical as a defence, but some hungry birds may take the risk).
- 6. You could construct a simple food chain for the children to copy on the back of their sheets to link the ladybird's life to its garden home and neighbours. (E.g. THISTLE → APHID → LADYBIRD → INSECT EATING BIRD.)
- **7.** Shared reading of *The Bad-Tempered Ladybird*. Ask the children to predict what is going to happen next.

Find out more websites:

- www.ento.csiro.au/biology/ladybirds/ladybirds.htm
- www.backyardbuddies.net.au/buddies/Ladybirds.html

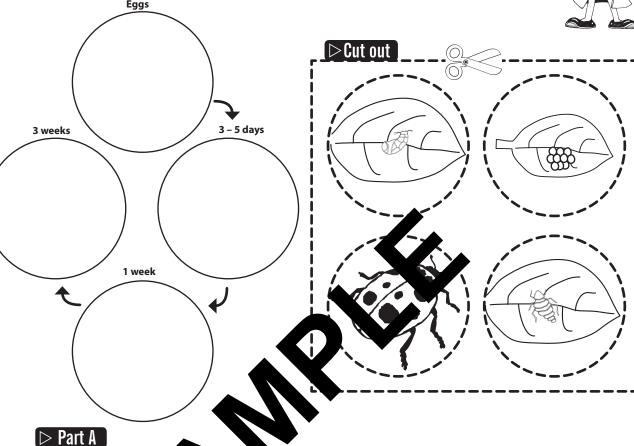


Activity

Life cycle Of A Ladybird

■ Cut and paste the pictures to show a ladybird's life cycle.





- 1. What is metamo of Joses!
- 2. Write down two more animals that go through this process.

⊳ Part B

- 1. What do ladybirds do in the garden? _____
- 2. What do ladybirds eat?
- 3. What might eat ladybirds?
- **4.** Draw a simple food chain that includes the ladybird.