

CONFEREN

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TRODUSTO I

Perhaps the question most often asked in education is, "Where do I start?" Whenever we are impressed with an idea or a program, it is the problem of implementing it ourselves that usually presents the greatest difficulty. In the emerging field of environmental education, the question and its difficulties are no less formidable and it is in the interests of providing one answer that "Environmental Starters" evolved.

Each of the activities presented has been a part of the Gould League of Victoria's in-service education program

for several years. As such it has been trialled and modified in practice many times—with children and adults. We have found that each idea provides the stimulus for alerting participants to specific features of their environment and offers the potential for developing a wider consciousness of a habitat area.

In its lay-out we have tried to make it adaptable to varying teaching strategies. It could, for example, be used as a text and activity book for an individual or

group, who work through the book as a whole. Alternatively, "Environmental Starters" could be broken up to form a set of assignment cards with multiple copies of each Record Sheet available for a facet-style approach to the subject.

Whichever method the book fits into, we see it providing a stimulating starting point for environmental education, as the beginning of a wider teaching program.



Environmental Bingo Record Sheet

Pencil

Sticky Tape

Your Task:

To look for objects around you that match the words listed on your Record Sheet.

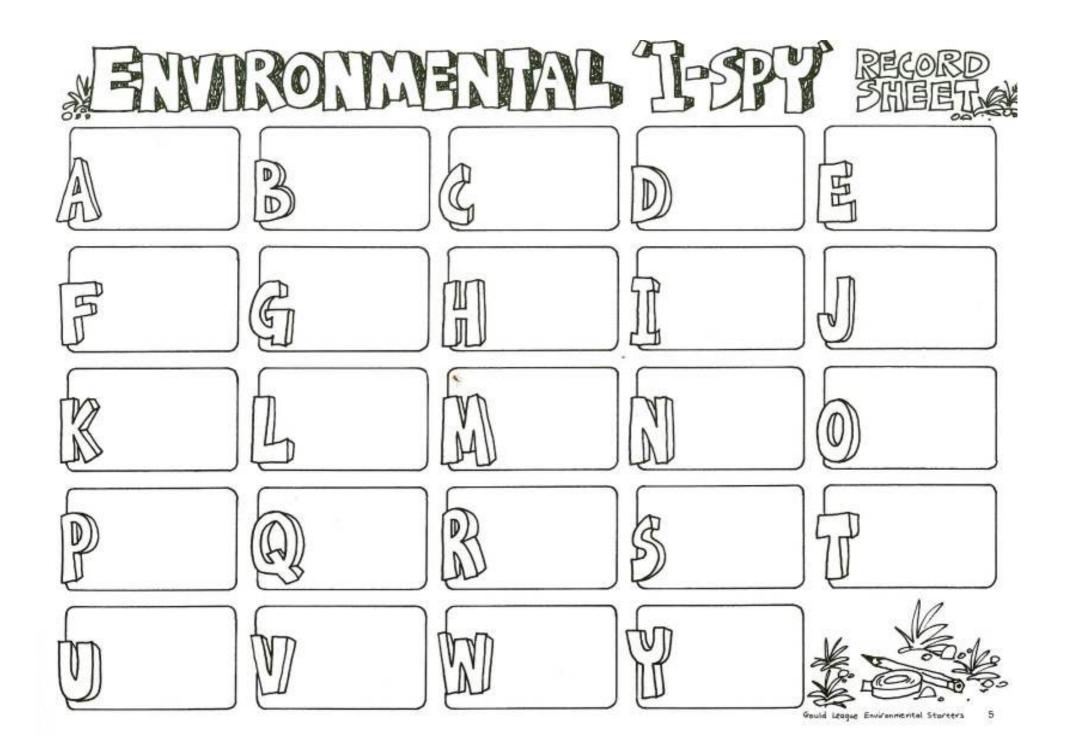
Draw, list or tape the objects you choose onto the matching spaces provided on your Record Sheet.

Compare your work with a friend's.

FINE BUGO RECORP

Rough	Pointed	Broken	Smooth
Soft	Old	Shiny	Gurved
Chewed	Smelly	Ting	Dirty

⁴ qualif League Environmental Starters





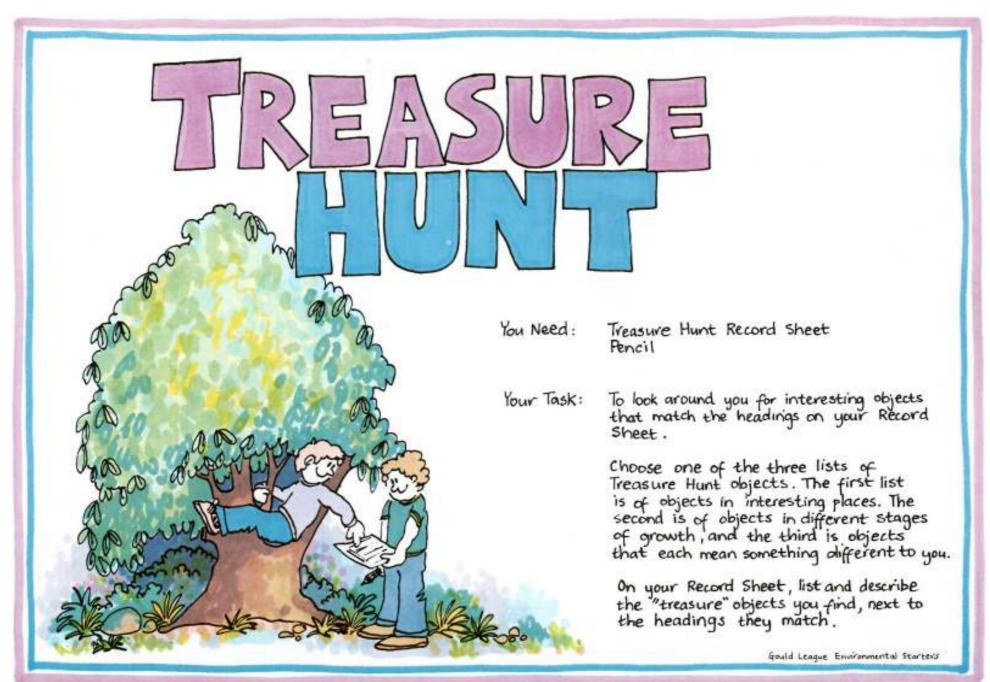
You Need: Environmental 'I-spy' Record Sheet

Pencil Sticky Tape

Your Task: To look for objects around you that each begin with a different letter of the alphabet.

Draw, list or tape each object you find onto your Record Sheet in the space that matches the first letter of each.

Compare your work with a friend's.

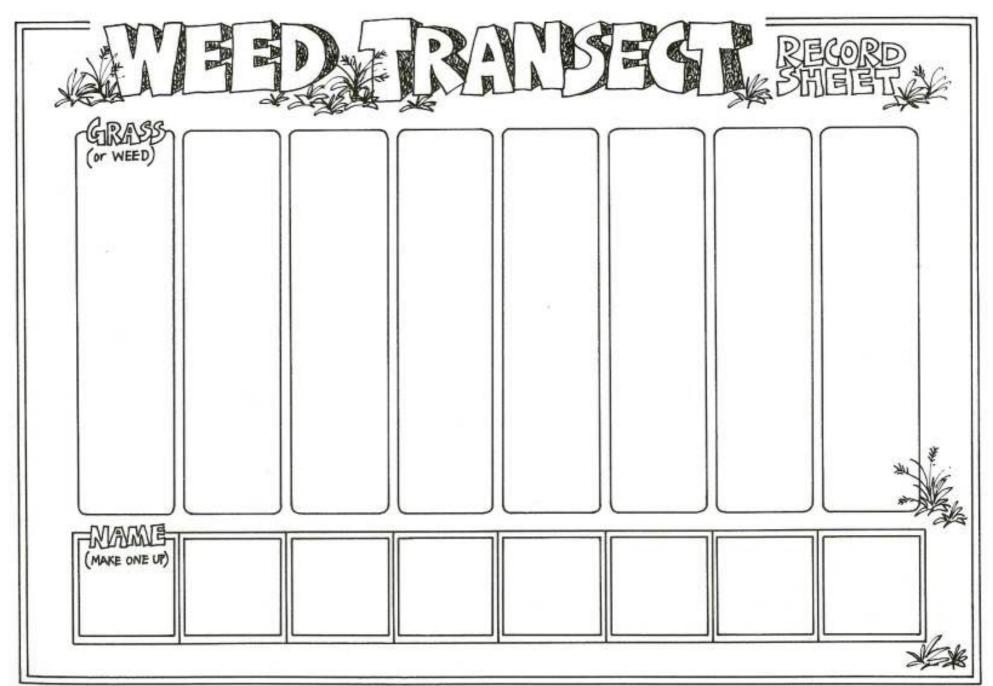


JE BUSELUG

REGORD SHEET something with a pleasant smell somewhere quiet something ugly something pretty something unpleasant to touch something unusual something you have never seen before somewhere you would like to sit

something underneath something else	
something between two things.	
Something above Something else	
something in an empty place	
something you can just reach	
something you can't pick up	=
something in a dark place	
something in a wet place	

something young	
something growing under difficulties	
something growing well	
something dried or parched	
something damaged ov injured	
something old	
something dead	
Something rotting	



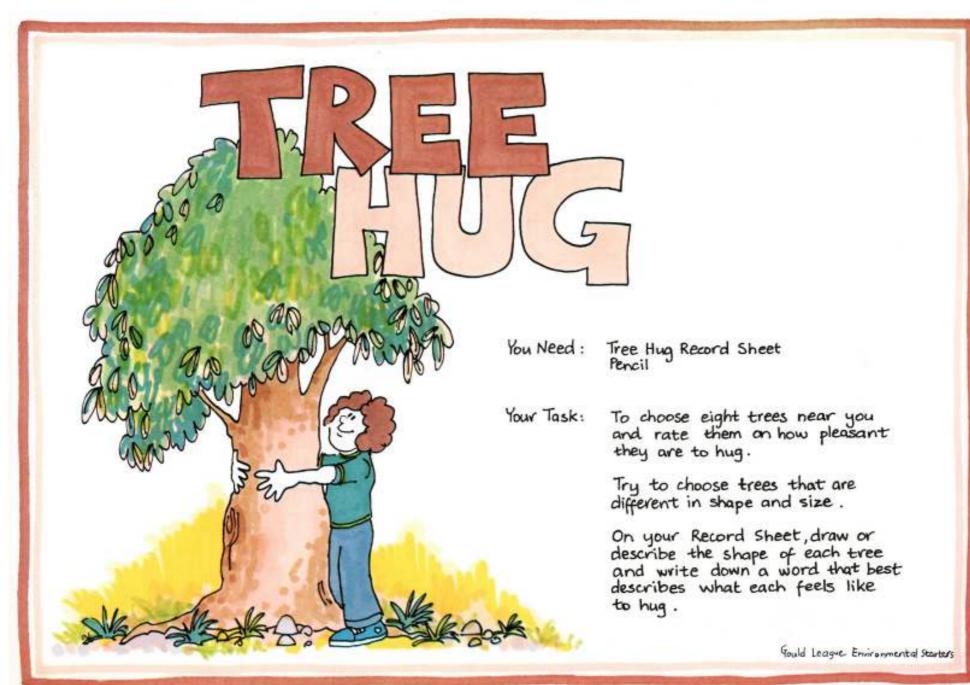
You Need: Weed Transect Record Sheet 1.5 metre length of string for each person, Stake

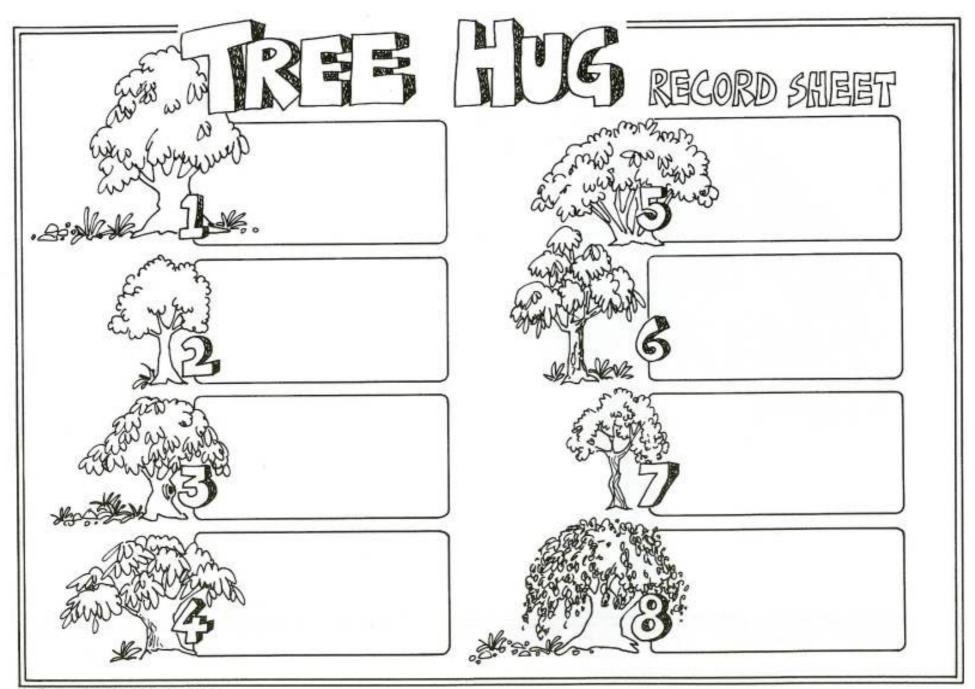
Sticky Tape , Pencil

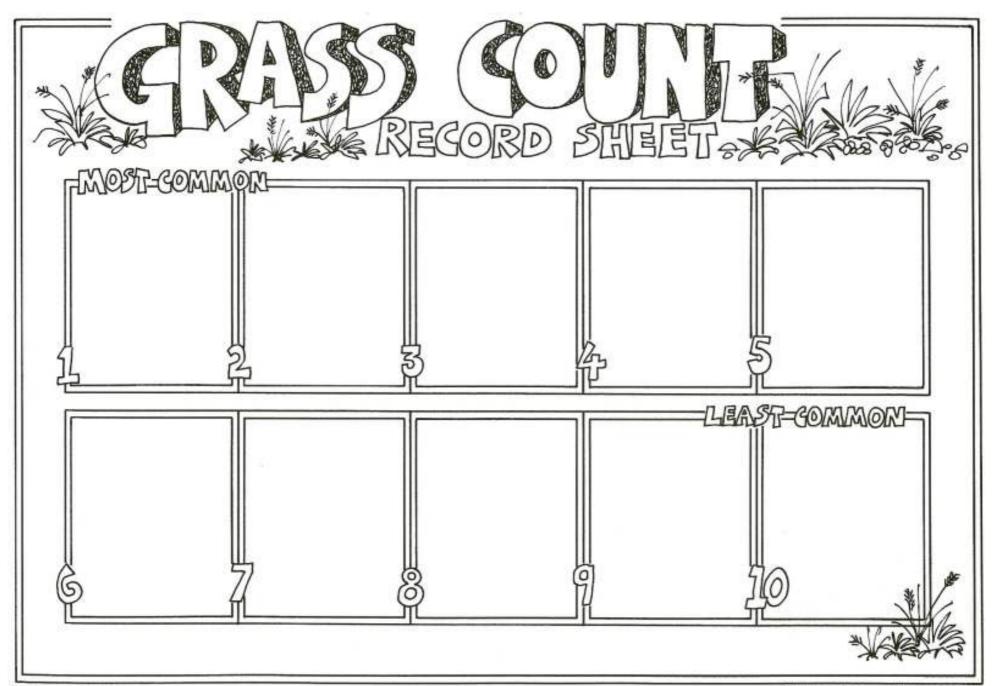
Your Task: To stretch your string in a straight line and see how many types of grass it touches.

Tie one end of your string to a stake with the string straight along the ground. Collect a piece of each type of grass your string touches, and tape it in a space on your Record Sheet.

Make up a name that describes each type of grass.







GRASSINT

You Need: Grass Count Record Sheet Sticky Tape



Your Task: To collect ten different types of grass from an area of lawn and to range them from the most common to the least common.

Tape the different grasses you find to your Record Sheet, starting with the grass you think is most common in the area.

Compare your work with a friend's. If you use the numbers on your Record Sheet as points for each type of grass, you can have a race with your friend to see who can collect some grass that exactly totals, say, 35 points.

GRASS SARDS

You Need:

Set of Grass Cards Grass Cards Record Sheet

Pencil

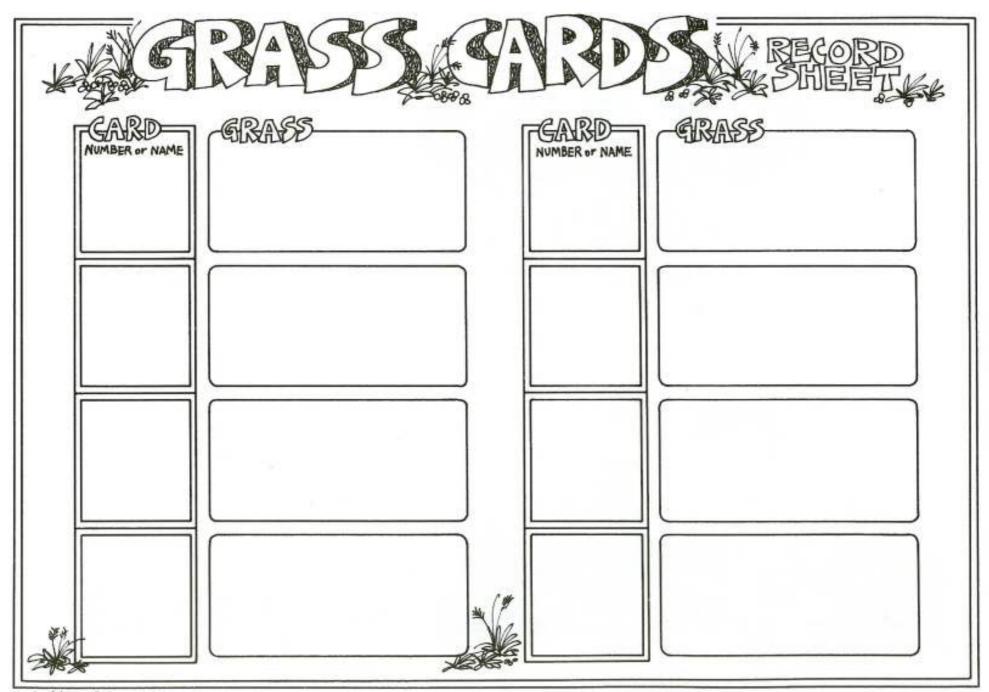
Sticky Tape

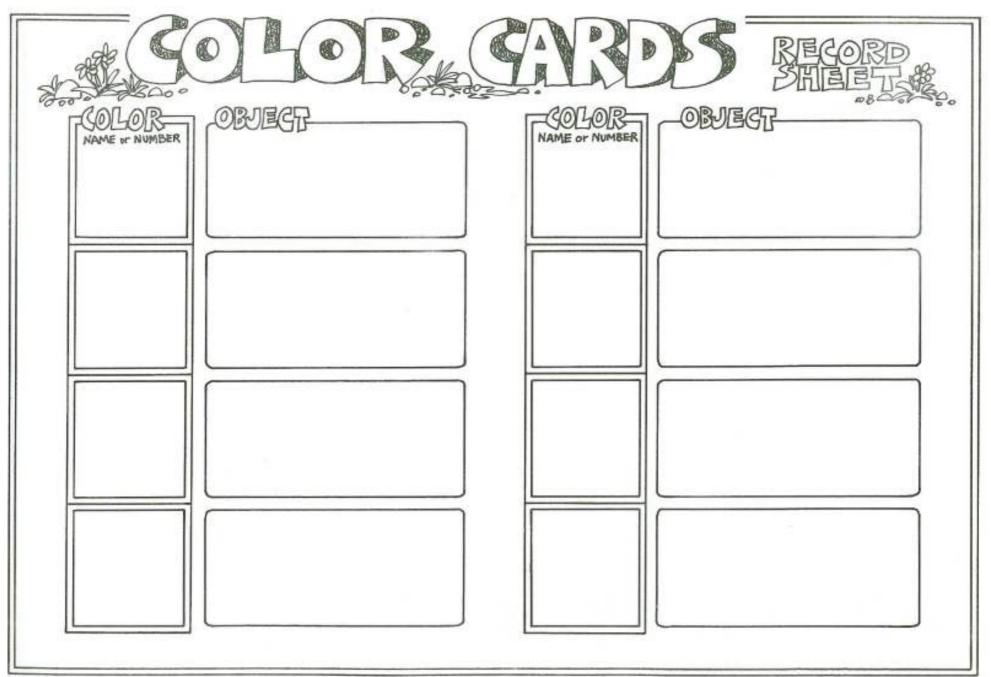


To look for different types of grass around you that match those on your Grass Cards.

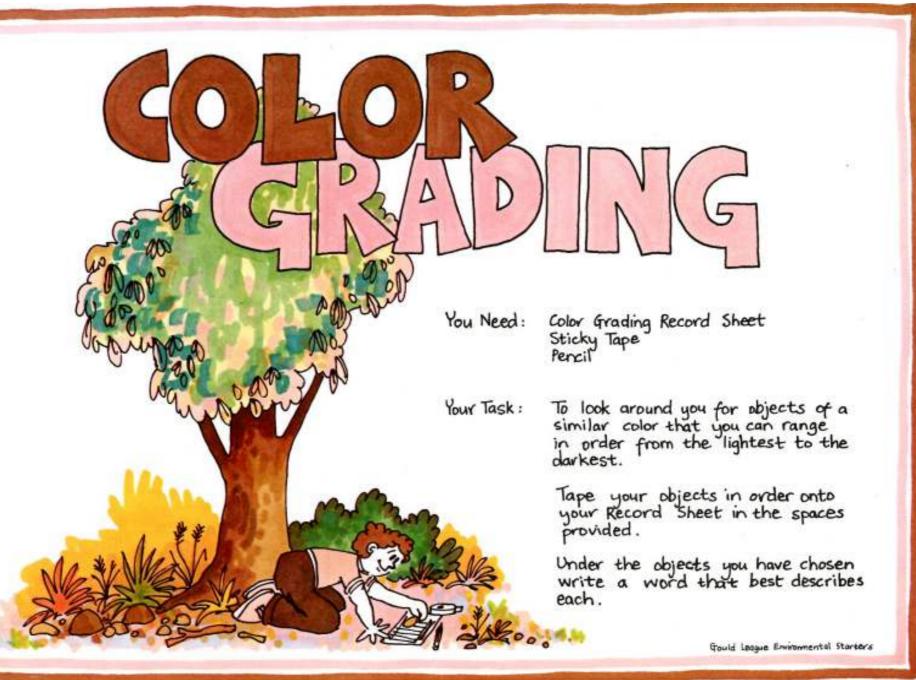
You can make the Grass Cards by sticking different types of grass and weeds onto cardboard squares with clear adhesive plastic.

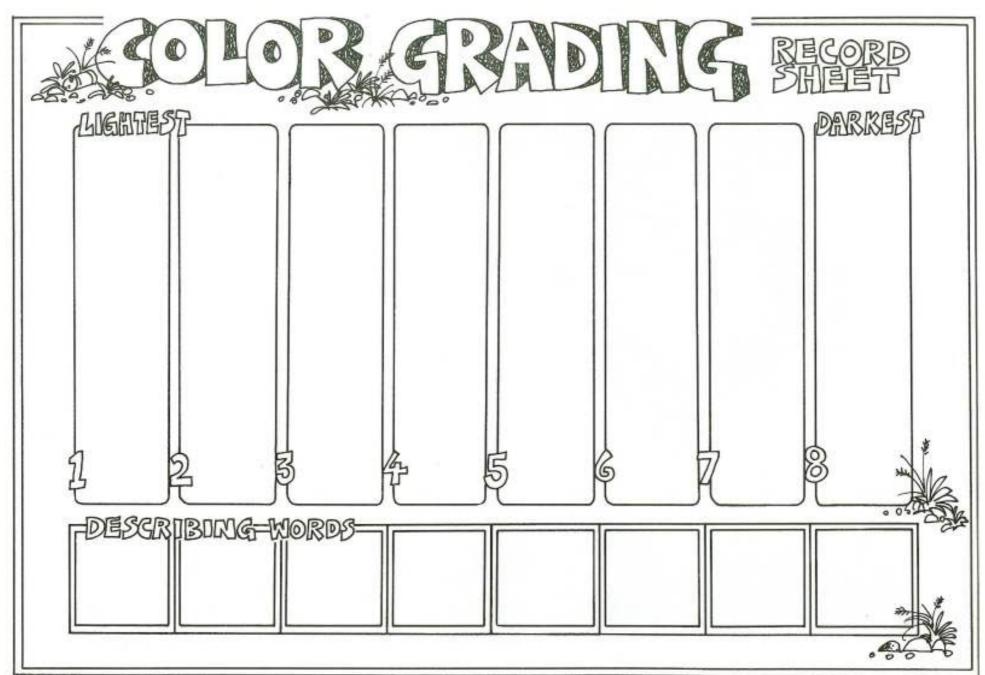
When you find any grasses that match the Grass Cards, tape them to your Record Sheet beside the number or name you have given to each Card.

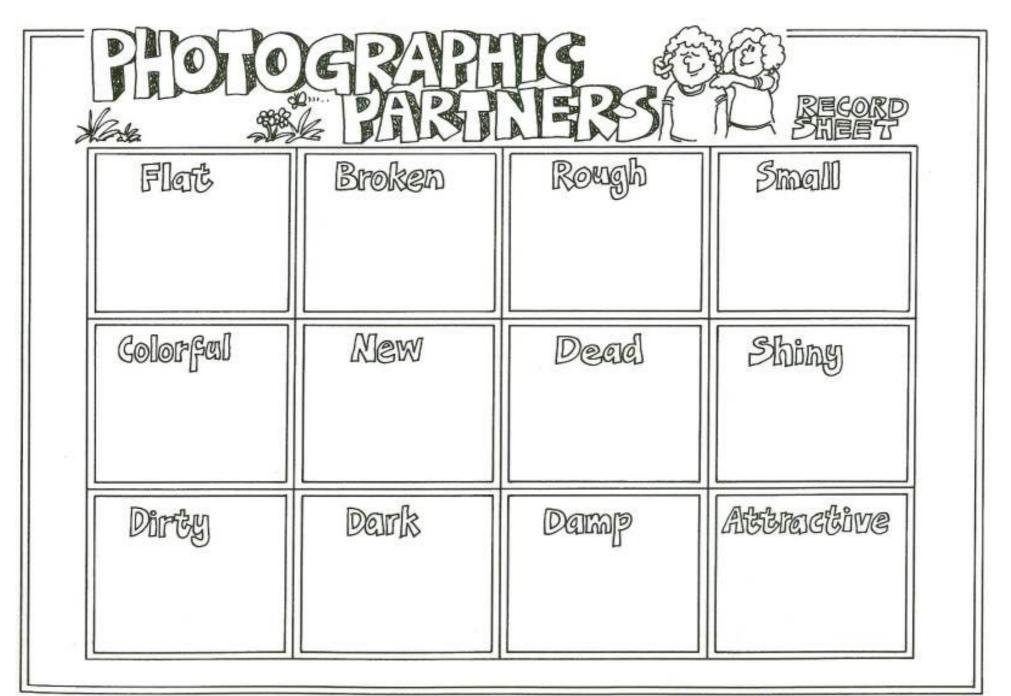














A Partner

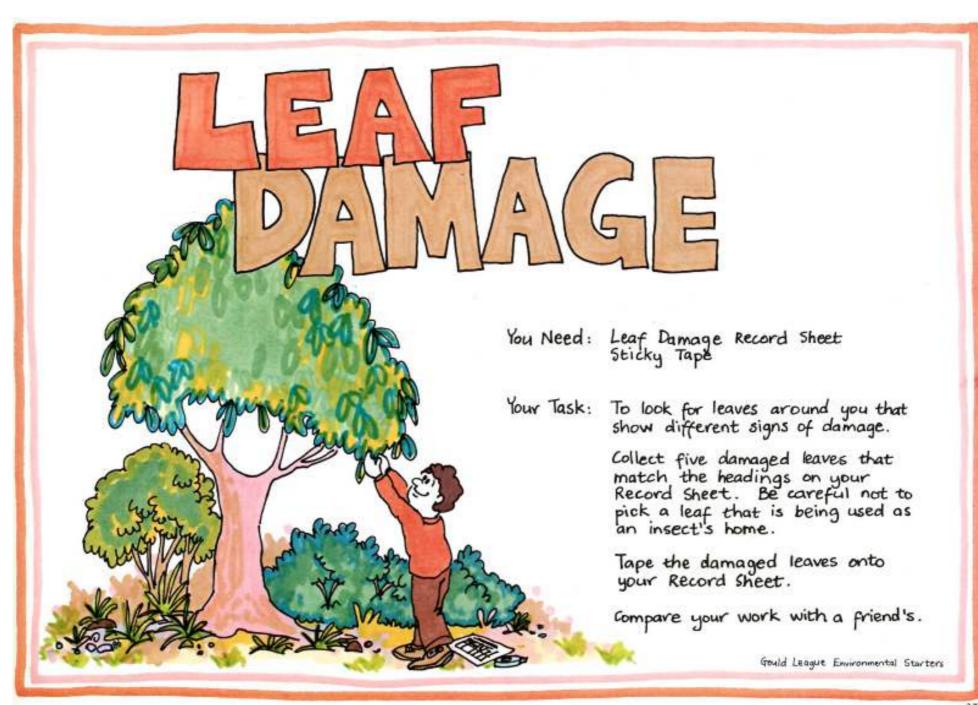
Photographic Partners Record Sheet Pencil

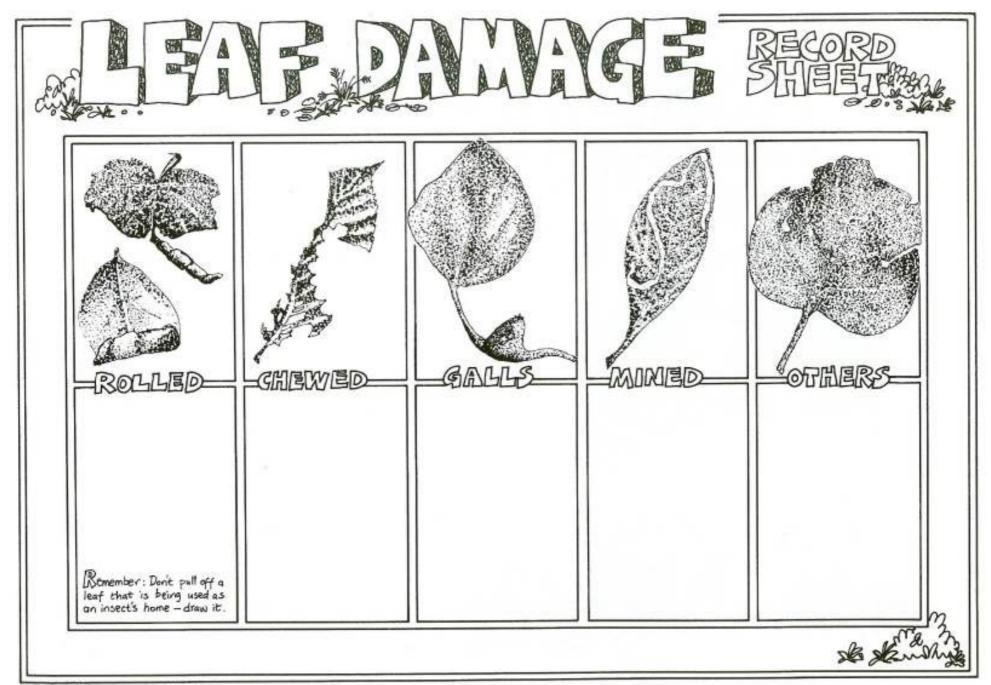
Your Task:

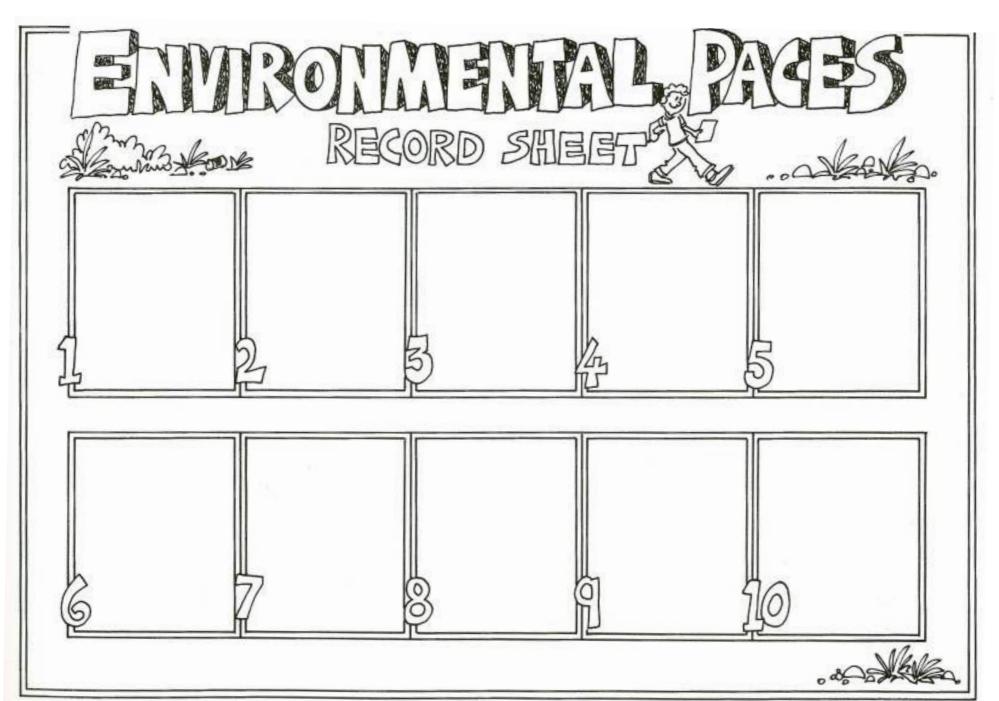
To use your partner as a camera, leading him around with his eyes closed until you see any of the things that match your Record Sheet.

To take a "photograph", push your finger lightly against your partners ear. He opens his eyes only for as long as you touch his ear. Three seconds is usually enough.

Take six "photographs" then give the Record Sheet to your partner and ask him to list or tick the "photos" taken.







ENVIRONMENTAL PACES



You Need:

Environmental Paces Record Sheet

Pencil

Sticky Tape

Your Task :

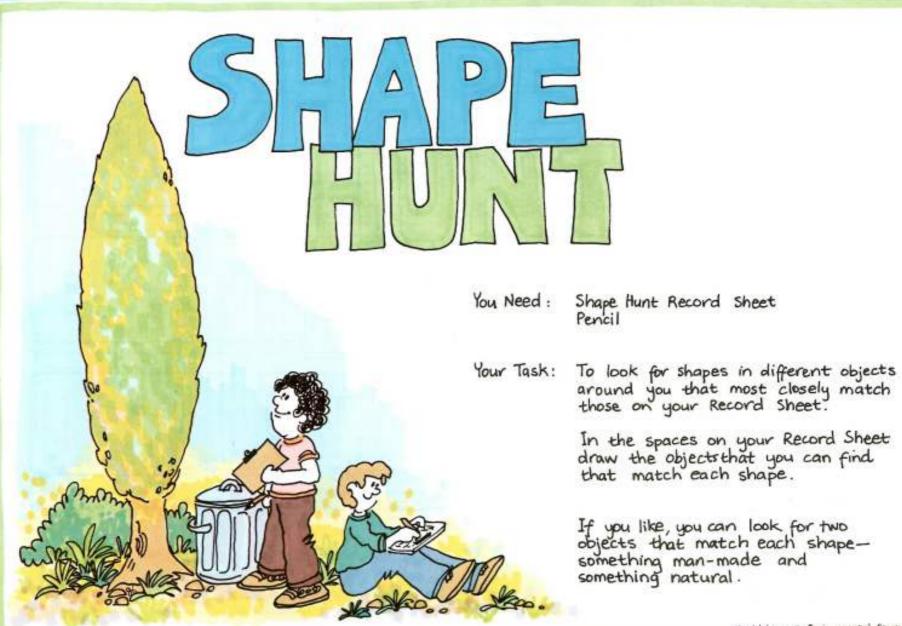
To see how many different things you can touch as you take ten

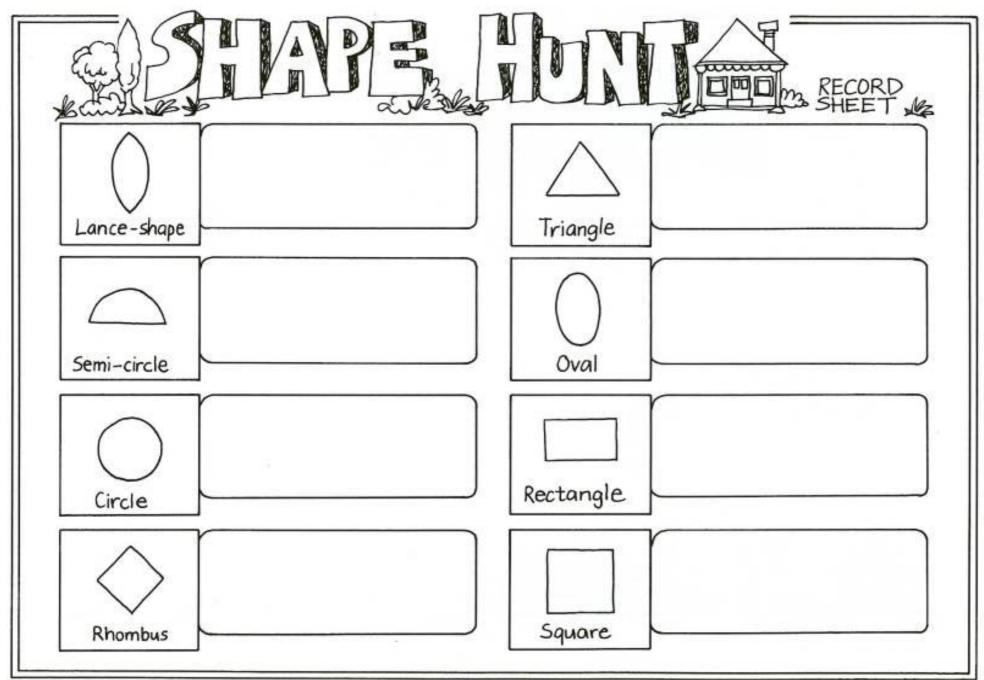
paces.

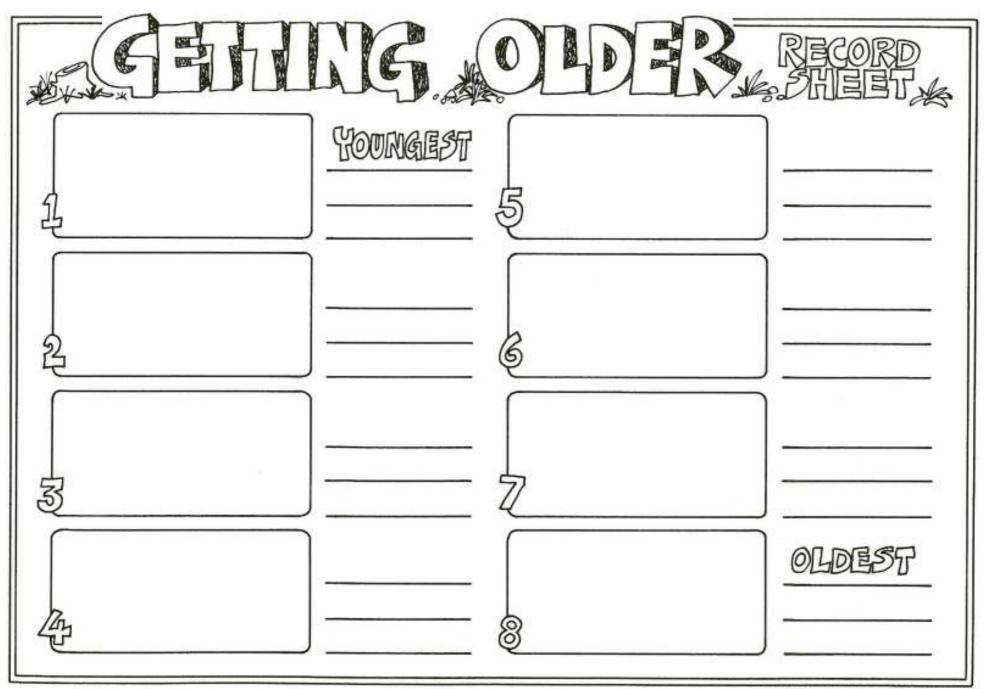
Choose an area where you can take ten paces in a straight line.

After each step you take, list, draw or tape onto your Record Sheet something you can touch without moving your feet.

Compare your work with a friend's.







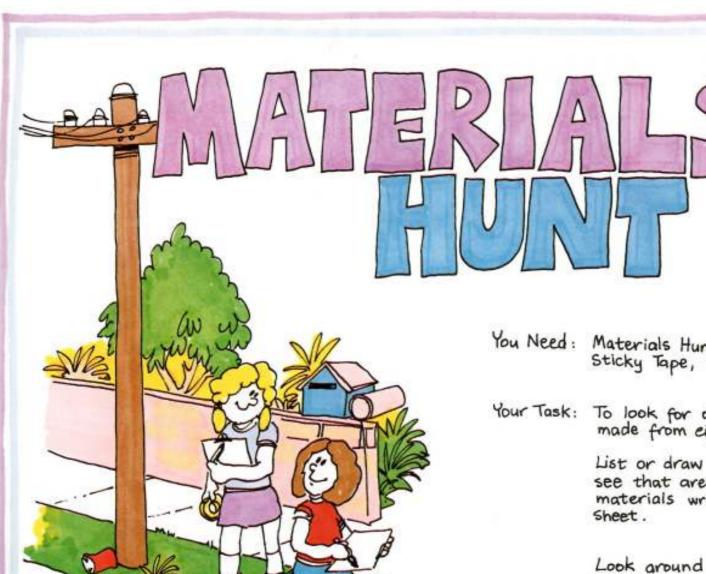


Getting Older Record Sheet Sticky Tape, Pencil

Your Task: To look for eight different objects around you that you can range from the youngest to the oldest.

Draw or tape each object onto your Record Sheet starting with the object you think is the youngest.

Write down two or three words that describe each object.

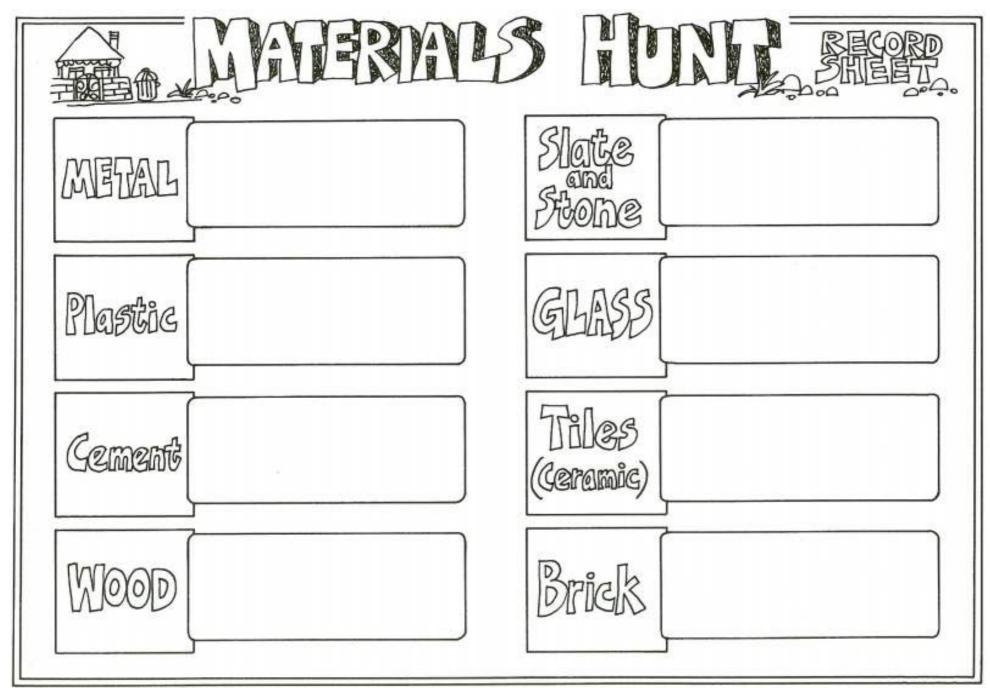


You Need: Materials Hunt Record Sheet Sticky Tape, Pencil

Your Task: To look for objects around you made from eight different materials.

List or draw the objects you can see that are made of each of the materials written on your Record

Look around for something of each material that is small enough to tape on to your Record Sheet.



RECORD SHEET Write down as many words as you can of things you see through your frame in one minute. List or draw eight of the objects you can see:



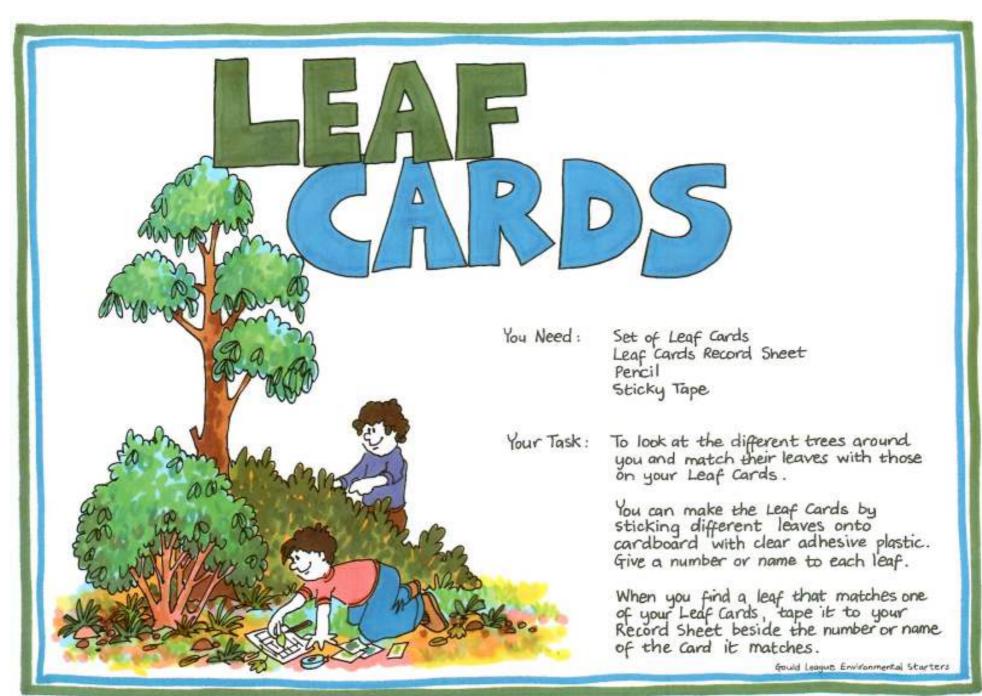
Finger Frame Record Sheet Pencil

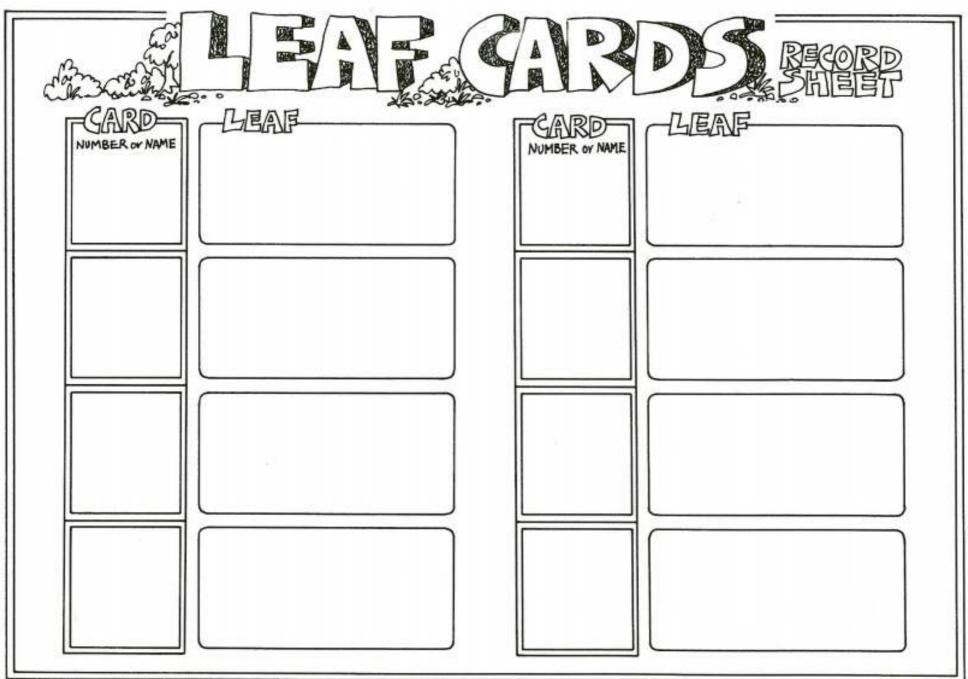
Your Task:

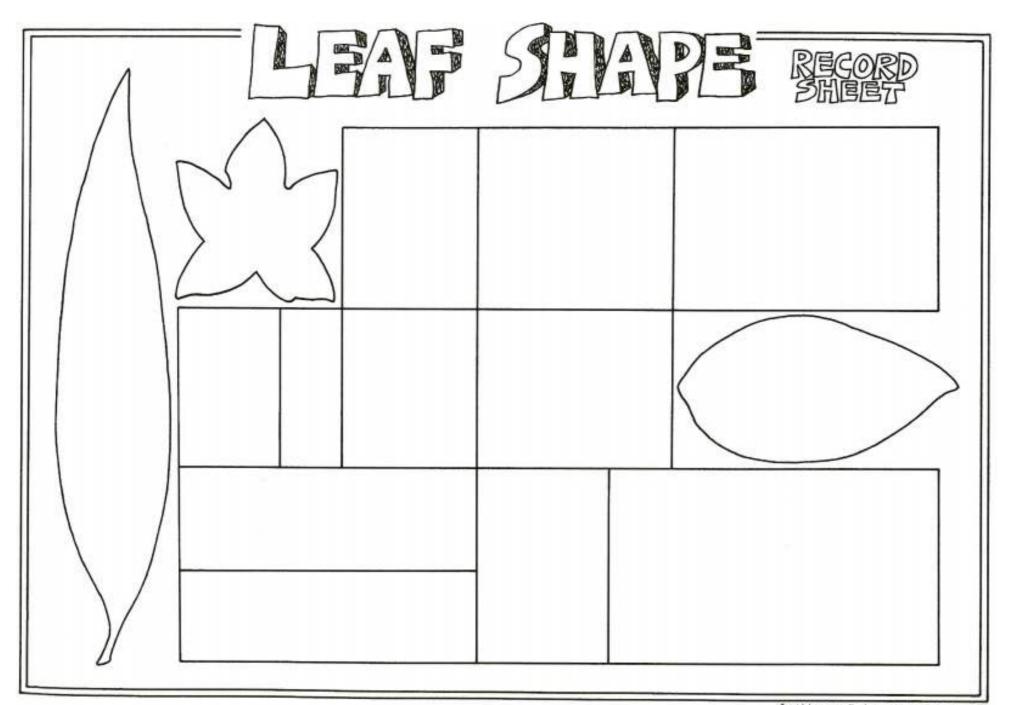
To hold your arms out straight in front of you and make a Finger Frame with your hands that you can look through.

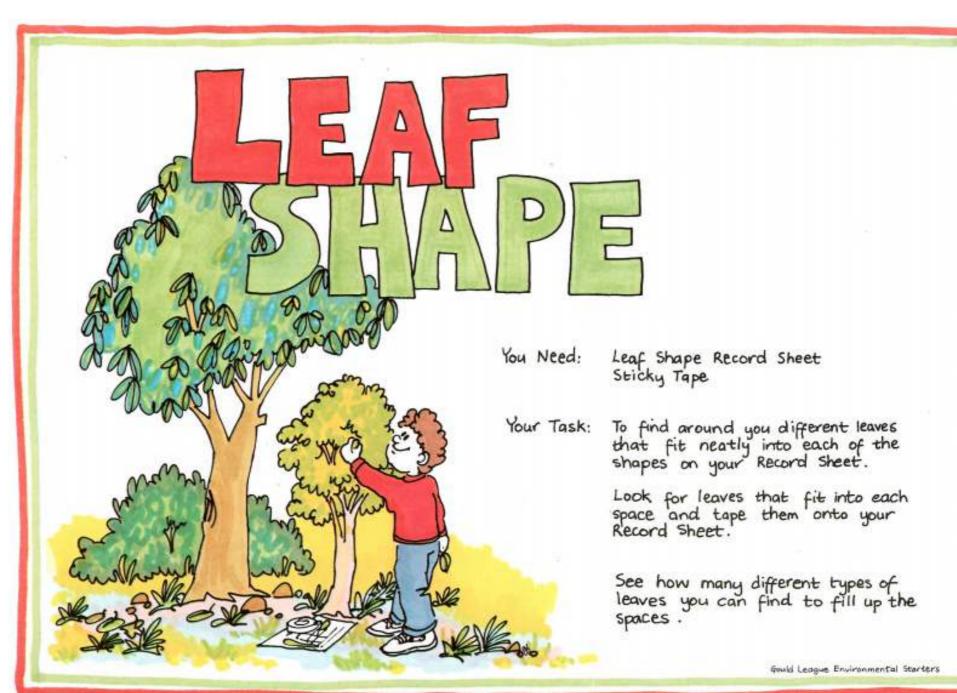
Line up on an interesting object and keep your arms still. List eight things you can see within your frame.

Line up on the same object as a friend and see who can list the most objects within one minute.











You Need:

Nature Numbers Record Sheet

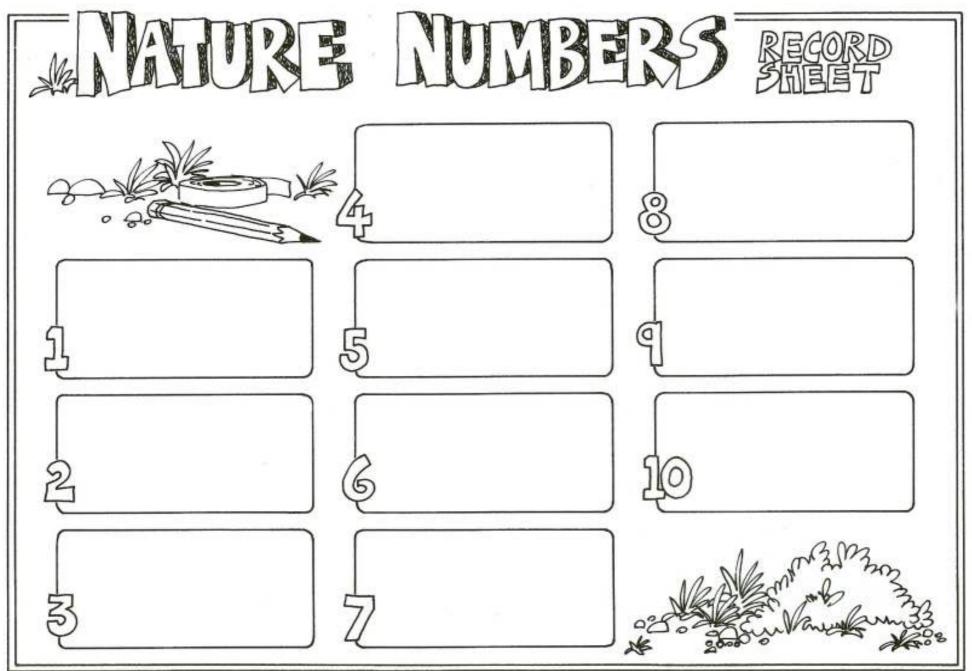
Pencil

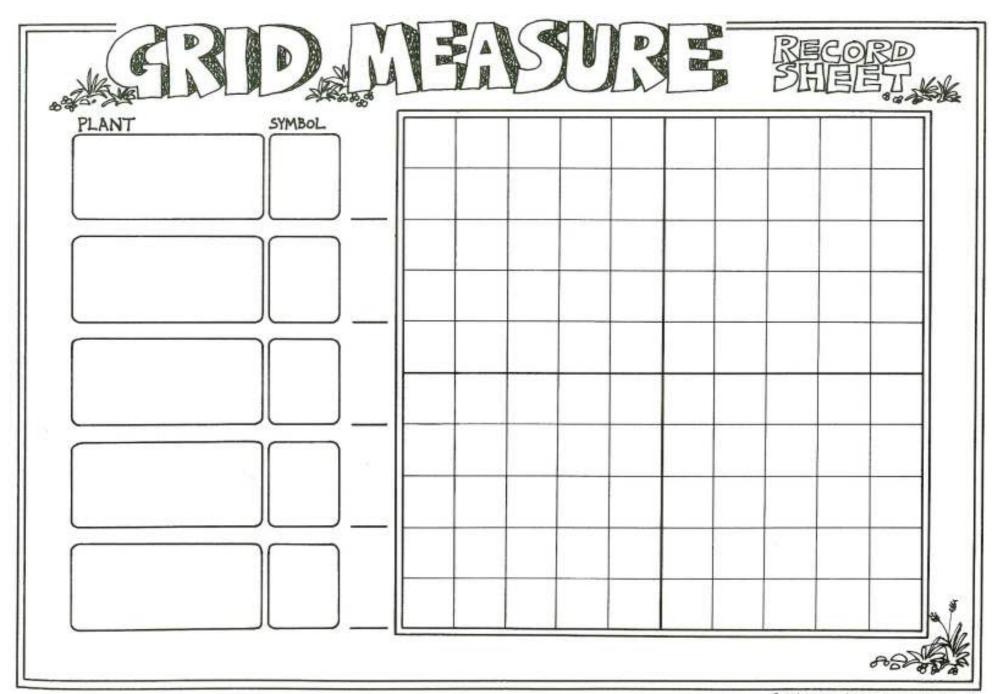
Sticky Tape

Your Task: To look for objects around you that in some way match the numbers on your Record Sheet.

Draw, list or tape the objects you choose onto the spaces on your Record Sheet.

Compare your work with a friend's.





You Need :

Grid Measure Record Sheet

Sticky tape, pencil

100 square grid on clear plastic

Your Task:

To work out the area covered by each type of grass under your grid.

Place your plastic grid over a patch of grass.

Stick down on your Record Sheet five types of grass that you can see through your

Make up a symbol to draw beside each.

Now fill in the grid squares on your Record Sheet with the symbols for each grass, as you can see them through your plastic grid. Count the types of grass in each grid square.

Which grass covers the most space?



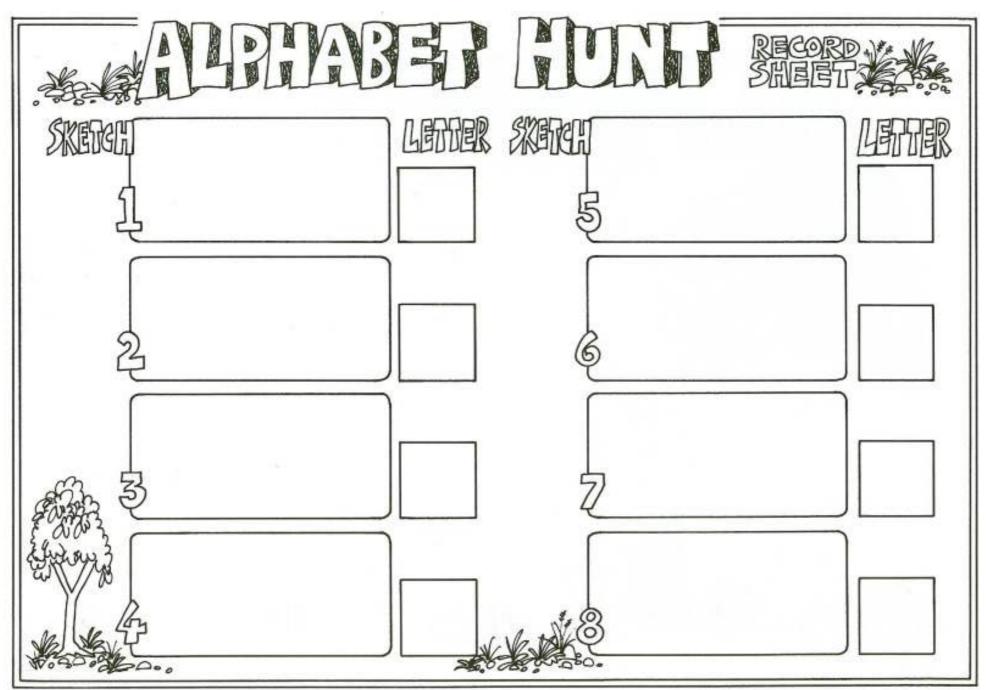


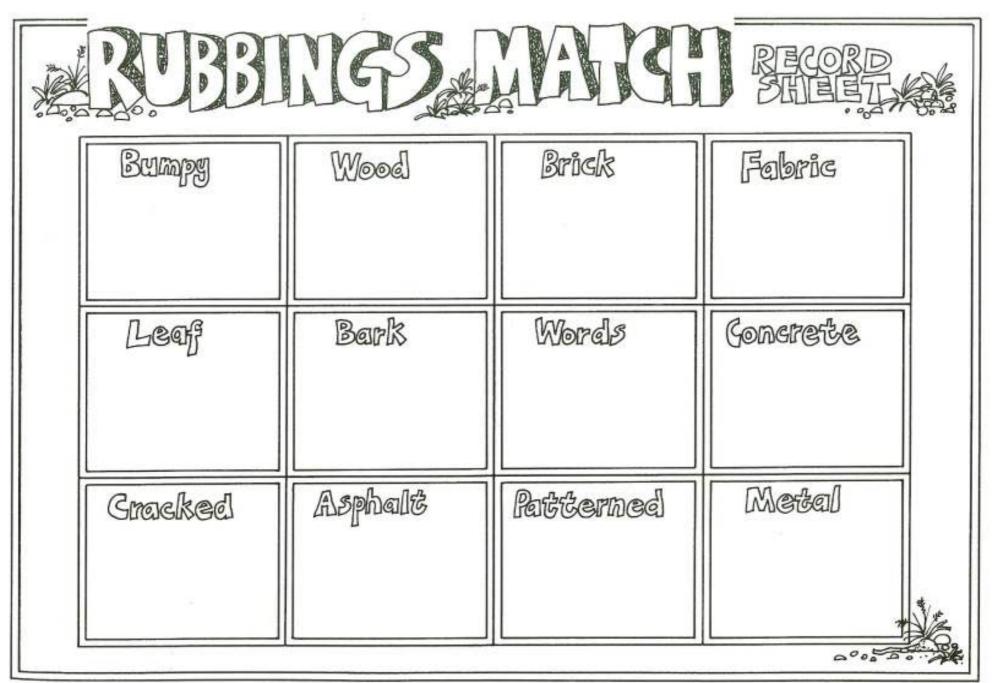
You Need: Alphabet Hunt Record Sheet Sticky Tape, Pencil

Your Task: To look for the shapes of letters of the alphabet in objects around you.

Draw or tape eight objects onto your Record Sheet, and beside each write the letter you can see.

How many words can you make up from your eight letters?







You Need:

Rubbings Match Record Sheet

Crayon

Thin Paper Scissors

or try crayon rubbing directly

Sticky Tape or Glue) on to Record Sheet.

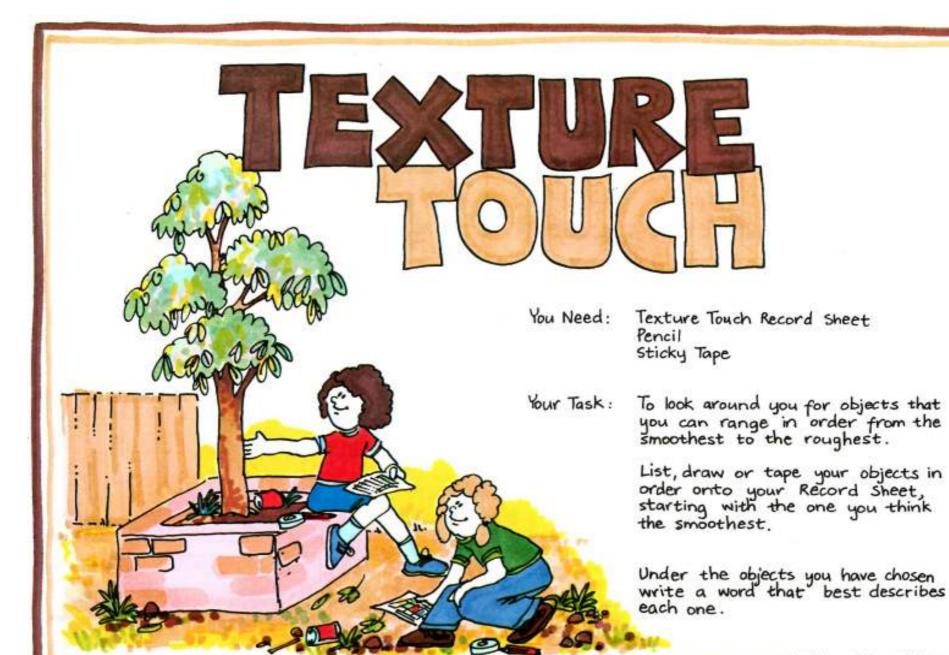
Your Task:

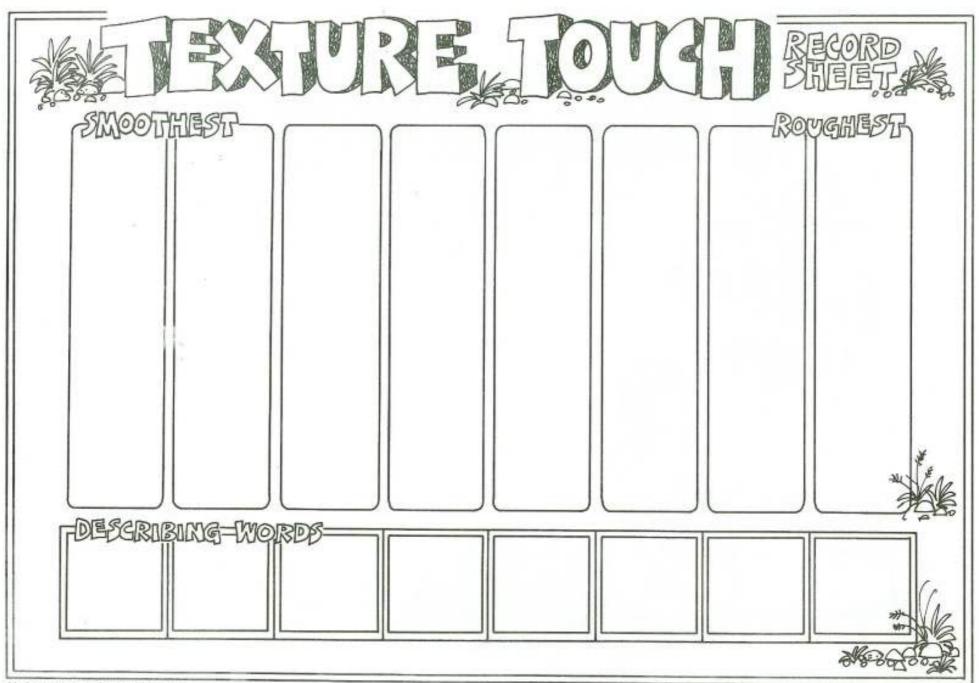
To take rubbings from different objects described on your Record Sheet.

Look around you for objects with interesting textures and take rubbings from those that you think match each of the headings on your Record Sheet

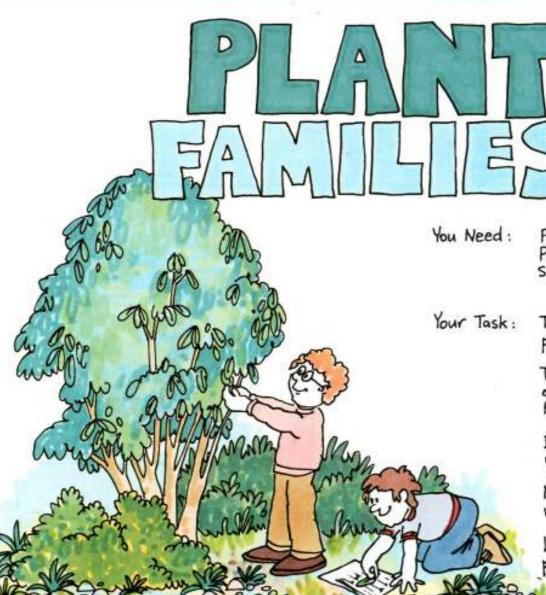
Cut out the rubbings and attach them to the spaces on your Record Sheet.

Compare your work with a friend's.





RECORD SHEET.	KK.
PLANT LEAF YOUR MADE-UP NAME) 5	
 	
Group your eight plants into three A	
families. Then make up names for B your family groups next to the plant numbers. G	



Plant Families Record Sheet

Pencil

Sticky Tape

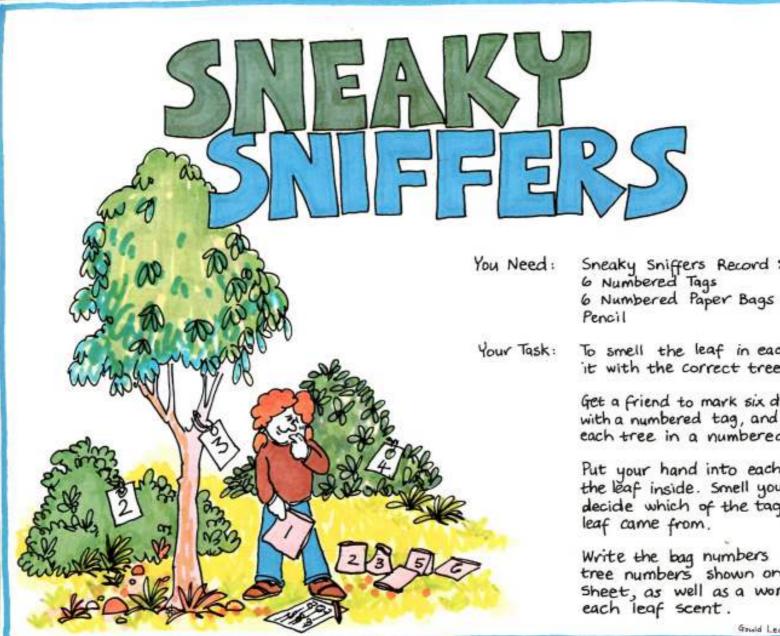
To make up names for some of the different plants around you and their family groups.

Tape a leaf from eight different plants onto the numbered spaces on your Record Sheet.

Beside each leaf write down the name you decide to call it.

Make up three plant family names and write them down in the spaces provided.

List each plant beside one of the plant family headings.



Sneaky Sniffers Record Sheet

To smell the leaf in each bag and match

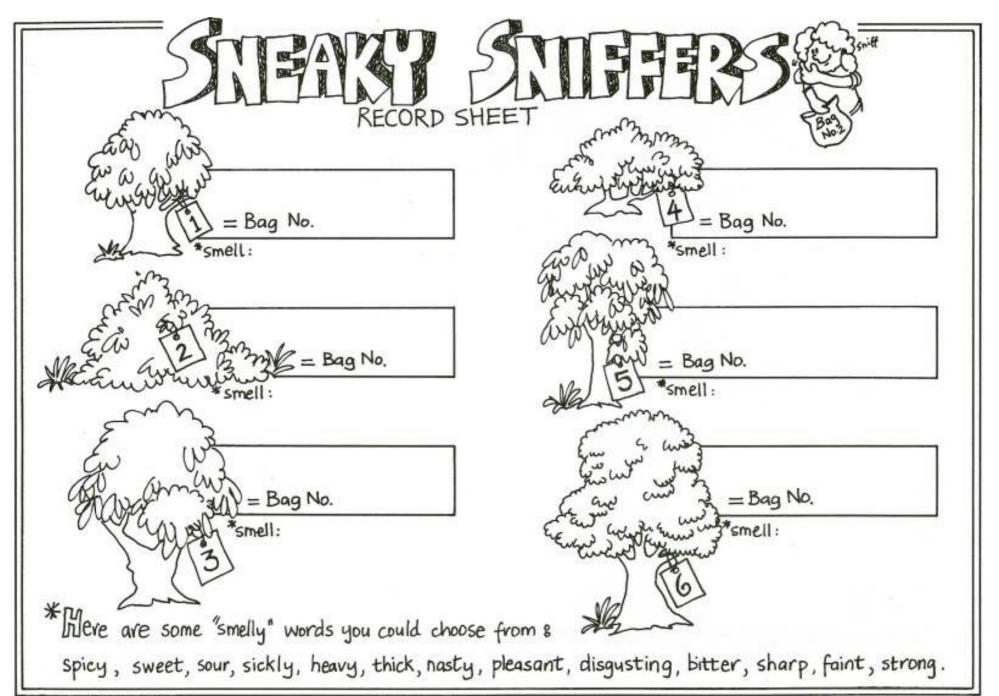
it with the correct tree.

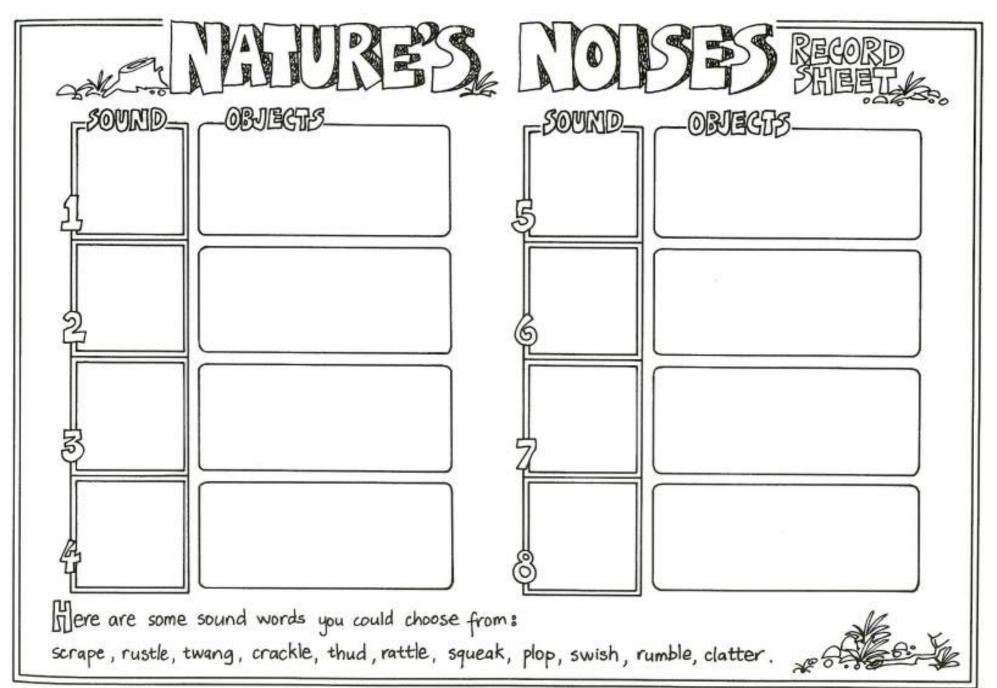
Get a friend to mark six different trees with a numbered tag, and place a leaf from

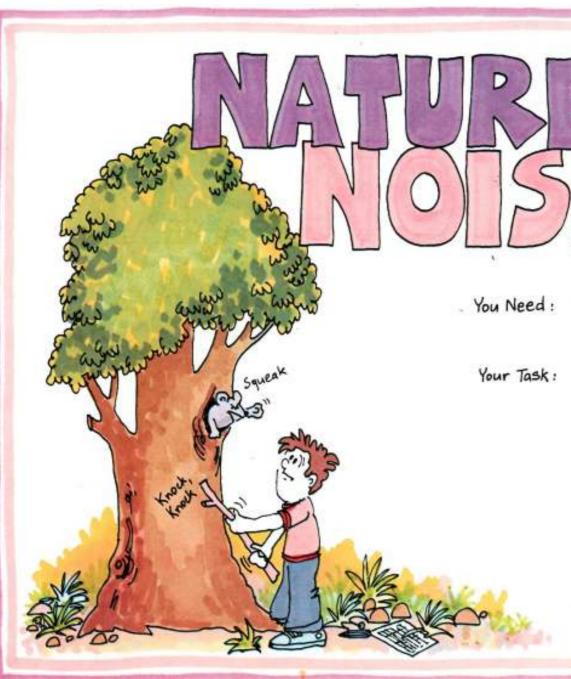
each tree in a numbered bag.

Put your hand into each bag and squeeze the leaf inside. Smell your fingers and decide which of the tagged trees the

Write the bag numbers beside the correct tree numbers shown on your Record Sheet, as well as a word that describes each leaf scent.







Nature's Noises Record Sheet

Pencil

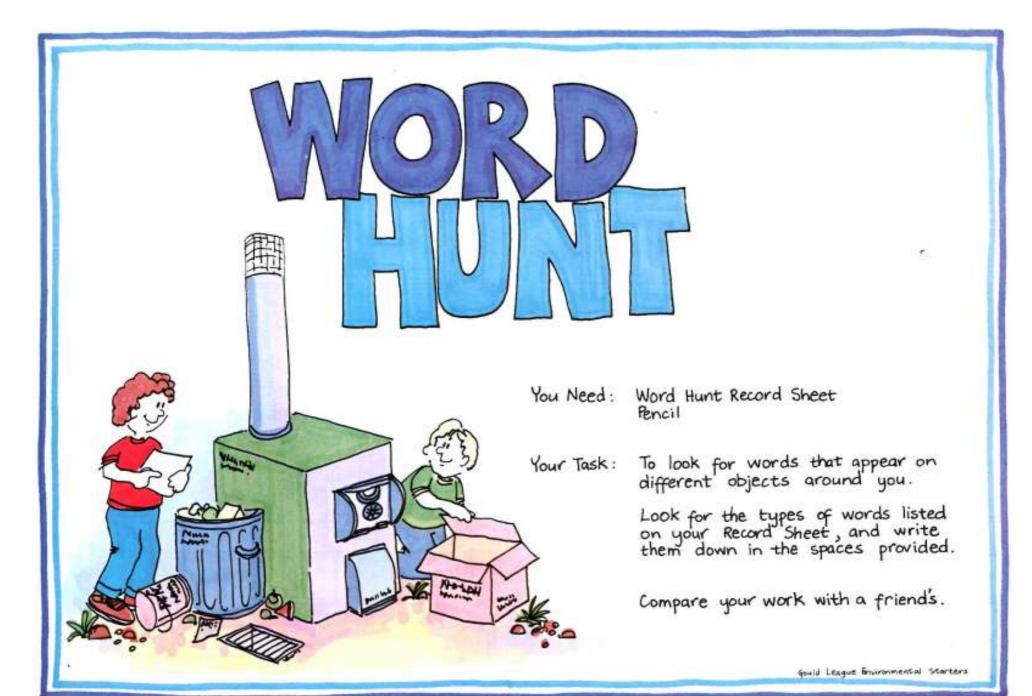
To find around you objects that can be used to make a number of different

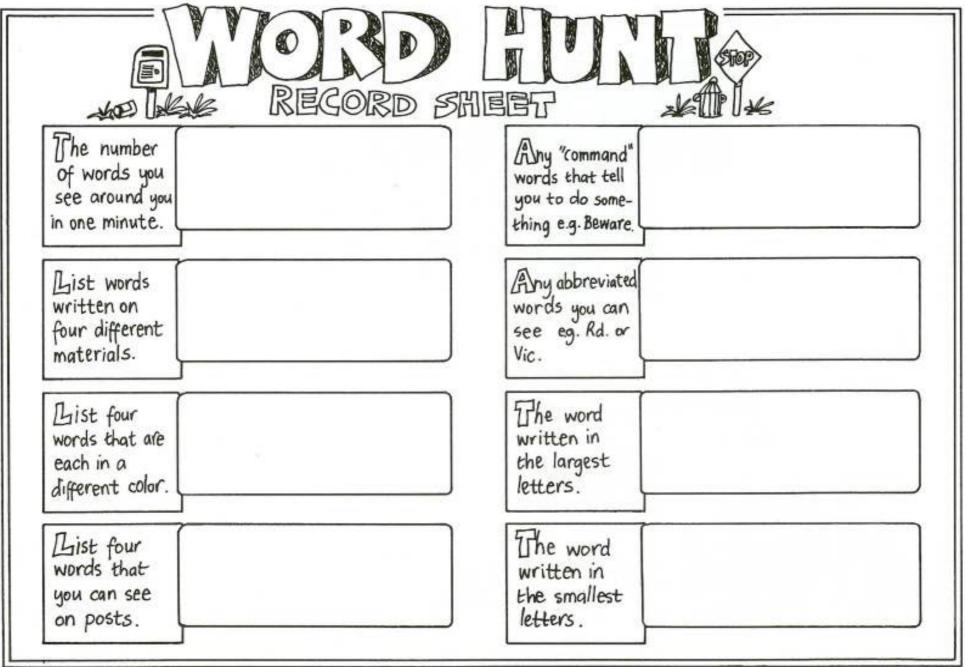
noises.

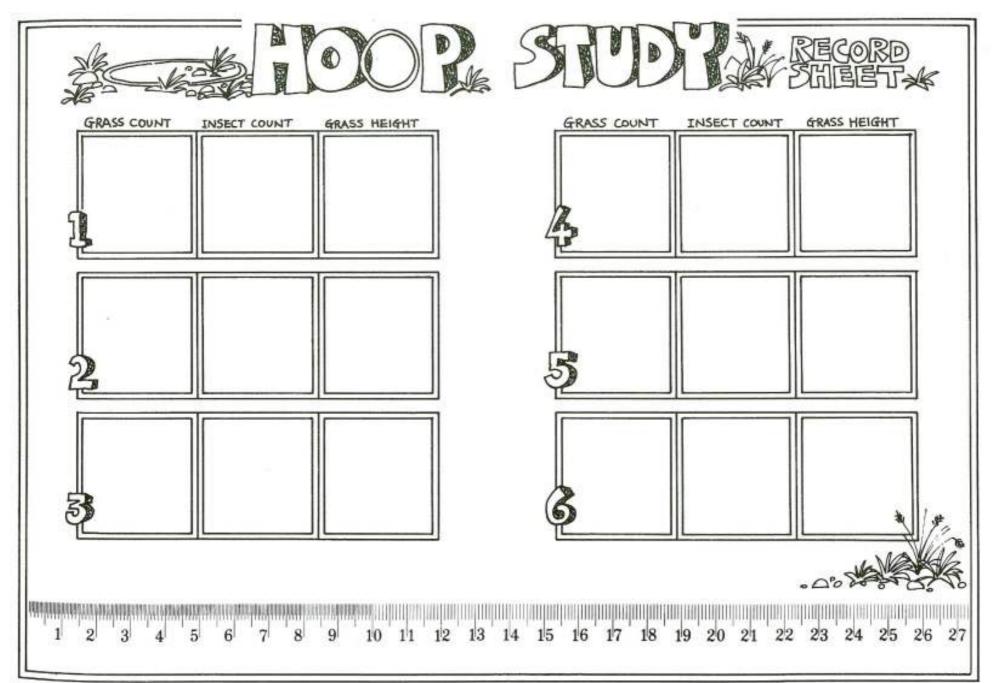
Choose objects with which you can make a range of sounds that scrape, squeich, rustle, twong, crackle, thud, rattle, squeak or plop.

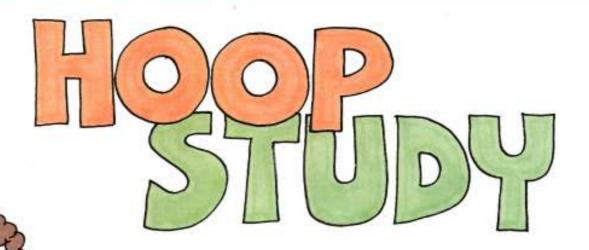
On your Record Sheet list eight sounds you can make and draw each of the objects used.

Compare your work with a friend's.







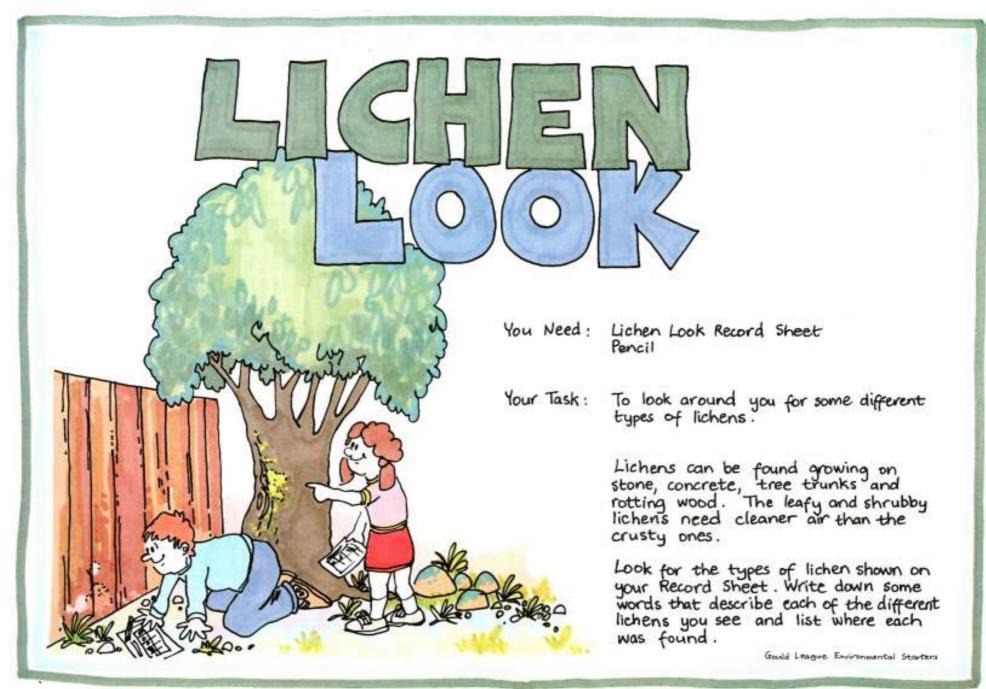


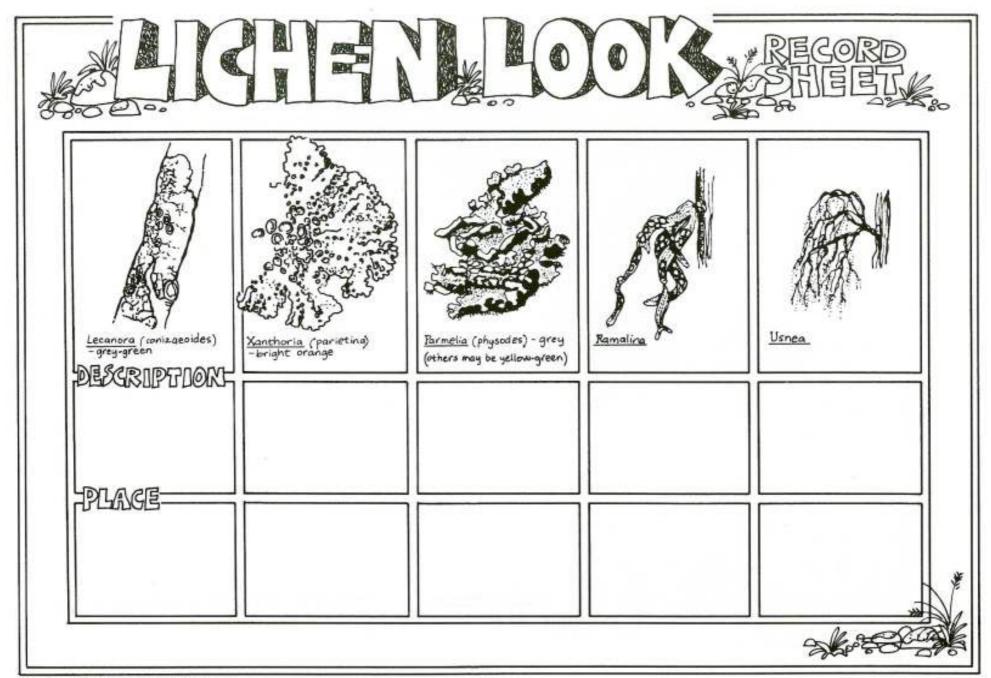
You Need: Hoop Hoop Study Record Sheet Pencil

Your Task: To study the life you find on the ground in six different areas.

Choose six areas that are very different to each other. Lay your hoop down over the first area and look for any insects that may be living there. Count the number of grasses within your hoop and measure the height of the tallest type of grass.

Write your answers for each of the six areas in the spaces on your Record Sheet.

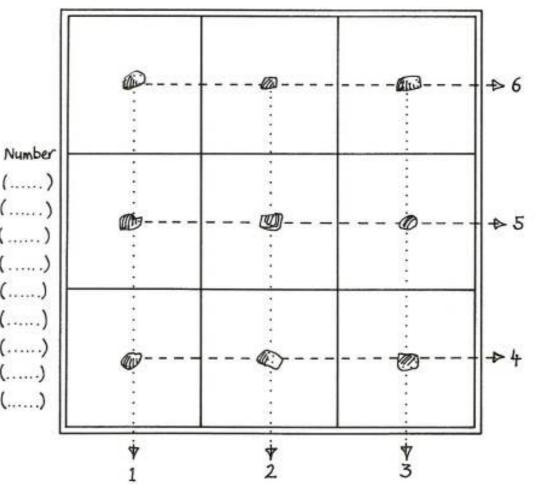


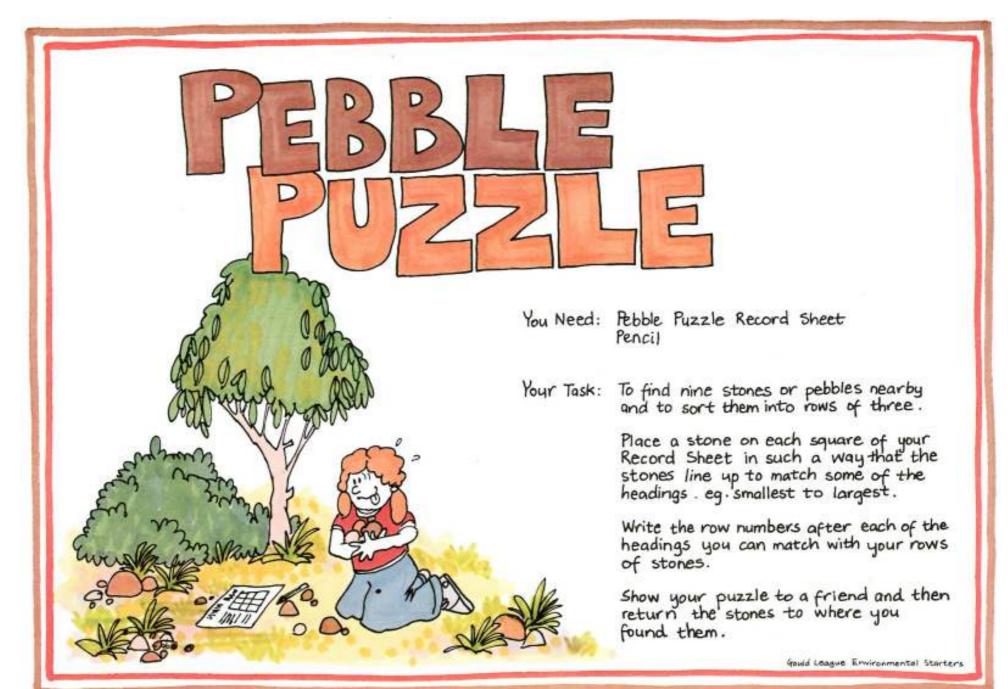


RECORD SHEET

Arrange your nine stones, with one in each square. Try to match up three in a row with some of the following:

smallest to largest (.....) darkest color to lightest color smoothest to roughest (.....) cleanest to dirtiest) lightest to heaviest (.....) softest to hardest (.....) roundest to flattest (.....) least interesting to most interesting (.....) least colorful to most colorful (.....)





Once we've started a program by means such as this, it is important to see where it leads us. A "once-off," "whizz-bang" approach to getting the activities "done" will overlook many discoveries and techniques. To do so would be to study an environment in one dimension only. On the other hand, the "Starters" could be used to develop a deeper awareness of the same area. For instance, information recorded about one environmental ospect can be compared with repeated recordings in the same place. Compiled over twelve months, this data will provide a basis of comparison over the next season. By such a simple but regular monitoring technique students develop the knowledge of what is actually going on in their environment and if some phenomena occur earlier one year, or not at all, the question,

"Why?", will form the beginnings of broader environmental education.

Some other ways of extending the work of the Starters "might include:

- Adapting the activities to invent new environmental games. Once identified or given original names, leaf and grass cards can be used in relay or "tag" games.
- Trailing by repeating one of the activities in a variety of different "stations" you can set up a trail on themes such as color, damage, age or texture.
- Carrying out local surveys, eg. bird-life, grass and weed growth in schoolgrounds, local parks or vacant lots. See Gould League's "Environmental Measuring Techniques."

- -Building up a nature timelineinclude observations on weather as well as wildlife - perhaps using the Gould League's "Environmental Log Book" which is specially designed for this purpose.
- -Identification of plants and animals using such publications as the Gould League's "Urban Survival" and "Urban Discovery Book".
- Sending census or survey results to such organizations as C.S.I.R.O. Wildlife Division, or comparing results with schools in different environments.

These are only a few of the many directions which would lead to a more complete approach to environmental education. You'll be surprised at the flow of ideas once you get "Started".

GARDEN WEEDS AND THEIR CONTROL R.Chancellor, Inkata Press, Melbourne, 1980

WEEDS IN AUSTRALIA
C. Lamp and F. Collet, Inkata Press, Melbourne, 1976

AUSTRALIAN GRASSES (Volume Three)
Nancy Burbridge, Angus and Robertson, Melbourne, 1970

NATIVE TREES AND SHRUBS OF SOUTH-EASTERN AUSTRALIA Leon Costermans, Rigby, Melbourne, 1981

WHAT TREE IS THAT?

5. Macoboy, Ure Smith, Sydney, 1979

BOTANIC ACTION C. Smallman and D. Bellamy, Hutchinson, Melbourne, 1978

LOOKING AT THE WILD Harry Butler, Hodder and Stoughton, Melbourne, 1981

CITY AND SUBURB (Australian Habitats Series) Alan Fairley, Methuen, Melbourne, 1981

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Telephone 51 1701

URBAN SURVIVAL

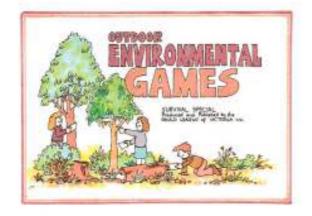
URBAN DISCOVERY BOOK

ENVIRONMENTAL LOG BOOK

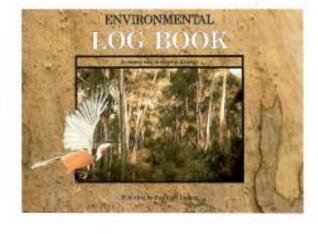
ENVIRONMENTAL ACTIVITIES FOR INFANTS

MONSTERS AND MINI-BEASTS (Books One and Two)

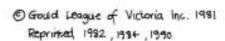
OTHER BOOKS IN THIS SERIES



Complete instructions for a wide range of games that illustrate basic environmental concepts.

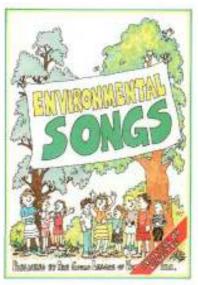


Using Gould League stickers or your own sketches, build up a calendar of your local environment.



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Music and lyrics for songs with catchy environmential messages. Cassette also available.