

Grand old trees of the garden

At the Natal National Botanical Garden we have many old and wonderful trees. To share their stories, we've marked some of the more interesting ones. Look for signs like this that tell you more about the 'Grand old trees of the garden.'

For interested visitors, the scientific name of each tree is included on the signs.



Grand old trees of the garden

The Natal NBG is an established garden with many old stately trees. Few visitors fail to admire their tremendous size and beauty. This inspired the theme 'Grand old trees of the garden'. Small temporary signs were used to highlight some of their interesting stories. Some of these signs still looked clear and professional 20 months after they had been put up. Signs in the shade lasted longer than those in full sun.

A5 signs. Made of paper which has been plastic laminated.



Poisonous oil nuts!

The seeds from this Tung-nut tree yield valuable oil, used in making varnishes and paint. Don't eat the Tung-nuts please. All parts of this tree are highly poisonous.

Aleurites sp.



Grand old trees of the garden



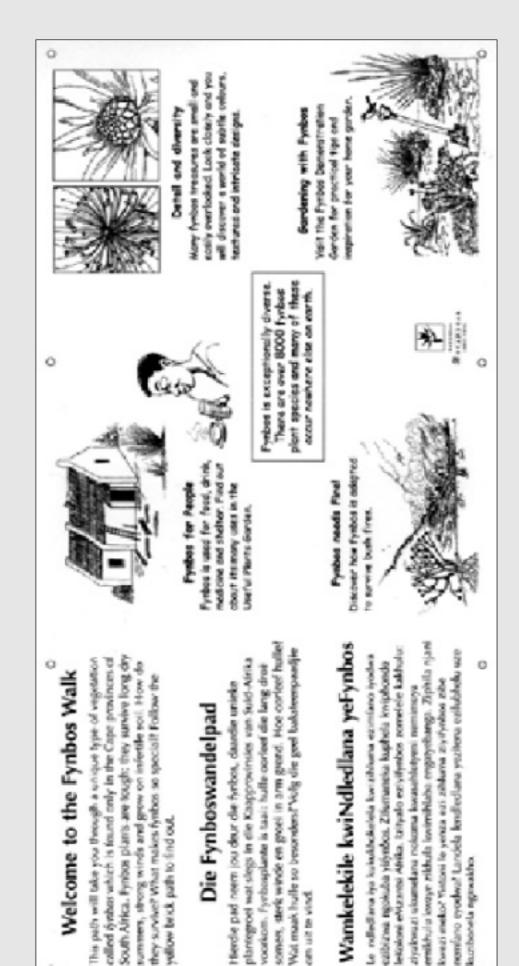
Lightning strike

In 1996 a bolt of lightning struck this Tulip tree. Naturally found in North America, these trees are named for their tulip-like flowers.

Liriodendron tulipifera



Grand old trees of the garden



the themes which will be interpreted along the walk. Notice how unanswered questions have been used to stimulate curiosity and encourage people to find This introductory sign explains briefly what fynbos is, and introduces some of out more along the trail.

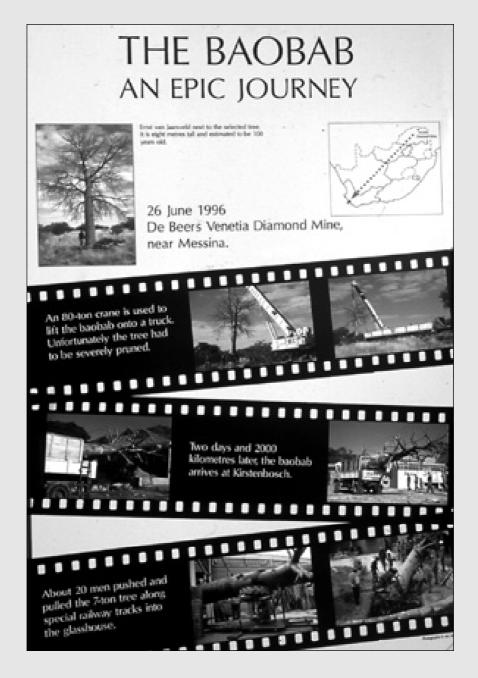
Aucribonela ngawakho.

 300×600 mm aluminium sign. Single colour (black).

ä

vellow brick path to find out.

com suit the wind.



The Conservatory at Kirstenbosch NBG features a large baobab tree standing over 8 metres high. This poster explains how the baobab was transported from the Northern Province of South Africa and planted in the glasshouse. Notice how little text there is and how pictures have been used in a photo frame format to tell the story.

 800×540 mm, full-colour, designed on computer and digitally printed at a specialised printing bureau.

A Built-in Sunscreen

This desert plant has a silvery covering on the outside of its leaves. This reflects heat in the hot climate where it lives. The cover also prevents excessive water loss.

Underneath the silvery layer the plant is green and can therefore make its own food.

Good design, don't you think?



The restaurant at the Natal NBG is one of the most busy and popular parts of the garden. John Roff (Interpreter) recognised this as a captive audience for interpretation, so he constructed a shelf with a pin-board near the entrance to the restaurant. He uses the shelf to feature interesting specimens from the nursery (in pots), and interprets the display with a temporary sign. Notice how everyday items like 'file' and 'sunscreen' have been used in the titles. These words attract interest because they are not usually associated with plants. It also makes it easy for people to identify with and understand the subject.

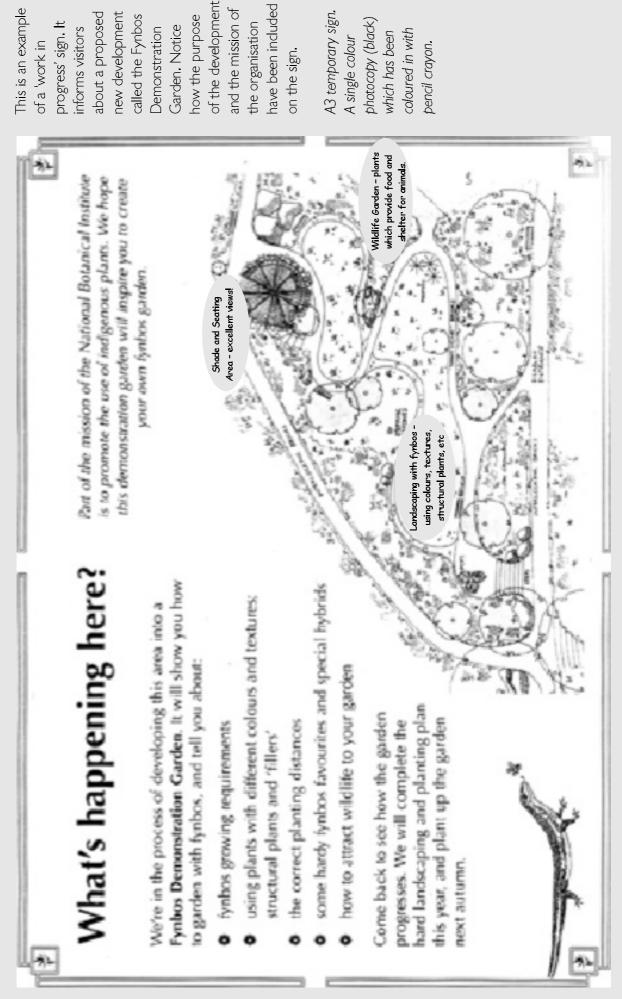
A4 paper signs

Why does this succulent feel like a file?

This aloe relative grows in the hot dry valleys of northern KwaZulu-Natal. Its thick fleshy leaves store water. This helps the plant survive long periods of drought.

Rub a Gasteria batesiana leaf. The rough texture stops animals from eating the plant, thus keeping its stored water safe.

Gasteria batesiana



Welcome to a Fledgling Forest

warmer subtropical parts of South Africa. To create shade and shelter for these tender species, we have used fasttrees and shrubs have been planted, mainly from the We are in the process of creating a forest. Dozens of growing pioneer trees.

contrast between open, sunny spaces and the cool shade habitats provide food and shelter for a variety of animals The forest is still a bit patchy. You'll be able feel the found under a closed forest canopy. These different and makes it a good place for bird watching.

what it will look like in ten years time. Come back and As you walk through this young forest, try to imagine see how it is growing from time to time.

Please help us name this forest

map it is simply marked as Section Q. If you can think of a descriptive name, please give us a call at tel 762 1166 We need a name for this area! On the Plant Records and ask for Maryke.



Institute is to grow and display plants. This garden section forms part of our collection

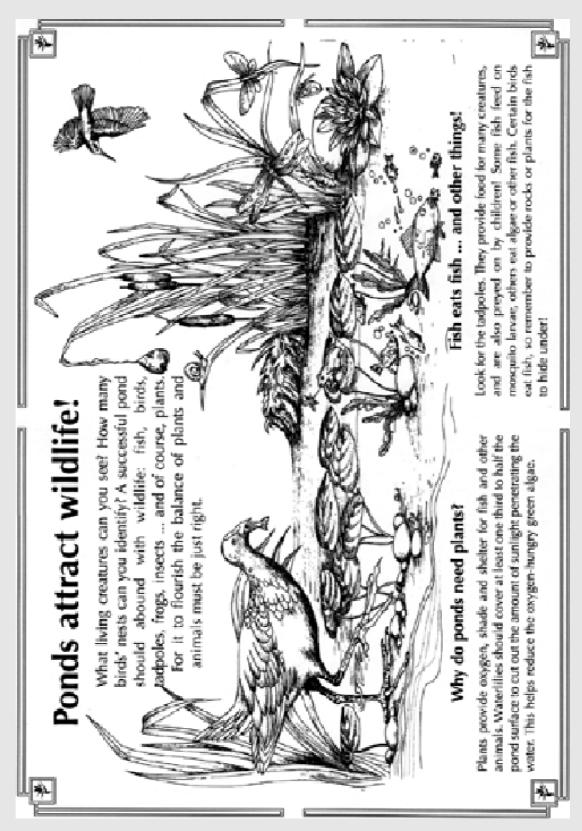
of subtropical trees.

Q' at Kirstenbosch NBG -The sign invites visitors to developed as a forest but an area which was being the entrance to 'Section didn't yet have a name. suggest a name for the area. The response was This sign was placed at suggestions were good. The area has now been small and mainly from officially named the Enchanted Forest'. children, but the

> How do you creete a forest? Enter this area to find out

A3 temporary sign. Single





Pretoria NBG. Notice

scientific jargon and

the absence of

around a pond in the

visitors to look out

This sign invites

for wildlife in and

explain the ecology of

ponds.

how simple words have been used to Single colour (black).

A3 temporary sign.



sign. Most people can relate to a big makes the subject short and concise **llustration** which mug of steaming The main text is centrally on this has been placed (42 words), and very accessible. information are coffee, so this extra bits of Notice the

given in the

A3 temporary sign. Single colour (black).

captions.

3r

Helmeted Guinea Fowl—pest-controllers not on the payroll!

扩

Helmeted Cuinea Fowl keep this Carden pest-free by eating termites and other invests—don't feed them, or they will get lazy and wor't do their job.

They breed only in good rainfall years when the maies become extremely aggressive and chare and annoy one another. Six to eight well-concealed eggs are laid in a grass-lined hollow in the ground. The parent bind will remain stubbornly sitting on its eggs, no matter what! Look out for chicks in summer.

Kgaka c dra gore tihongovana yo c dule c se na dilomi ka go ja makeke le dilihunidwano tie dingwe – o seka wa di fa dijo, di ka thoma go tiwafa gomme tia se dire moloma wa tiona. Di alama fela ka sehia seo di pula di nago kude ge ditona di ferekanya kudu di Idekišana le go rumolana. Mae a schola goba a sensoral a beolwa ka moletong woo o dikologikwego ke bijang. Nonyana yeo e lego motewadi e tia dula godimo ge mae a yona ka kgang – le ge go ka diresa enut

broading much broading much partr, but the blood are, is fact, outing the destructive stalls. brown and not the name.

Cewone Tarestale hos biestlie Tuln vry van glae, wart hulle vreet termiete en ander insekte—moet hulle asseblief nie voer nie, anders word hulle te lui om self tos te seek.

Hulle broei net in goele reënjare. Die mannetjies naak dan bale aggessief en aag en treiter mekaan gedung. Die goed weggestoekte holte in die grond waarin ses tot agt eiers geld word, word met gras uitgevoor. Die ouer sal op die nes bly sit en versag om pad te gee, wet ook al gebeurt. Wees op die uitkyk vir kalivens in die somer.

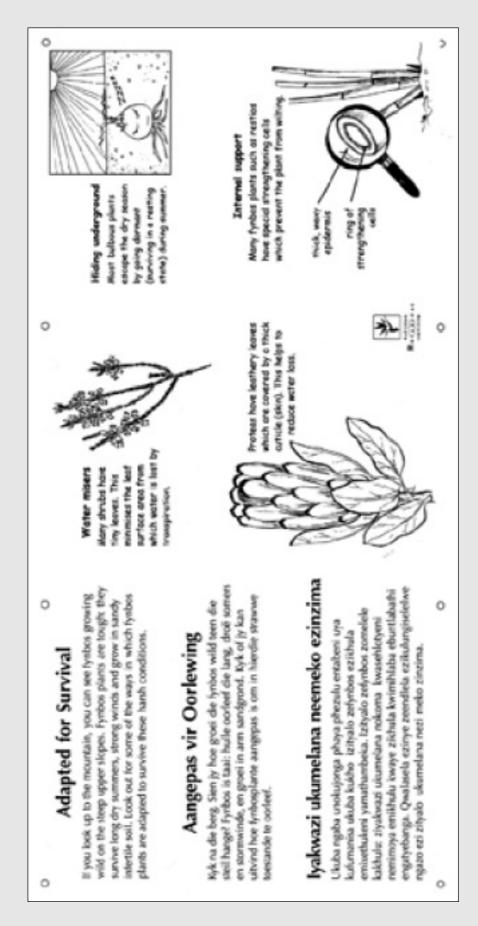
Humour has been used in the title to catch people's attention. The theme of the sign (Guinea-fowl help to control pests) helps visitors to understand the request not to feed these birds. The text (font size) is rather

Farmus somethna

A3 temporary sign. Single colour (black)

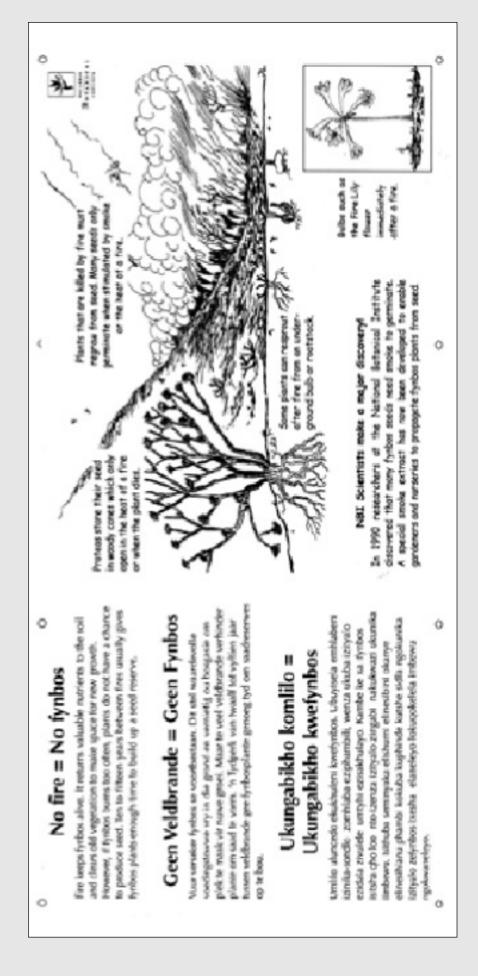
small.





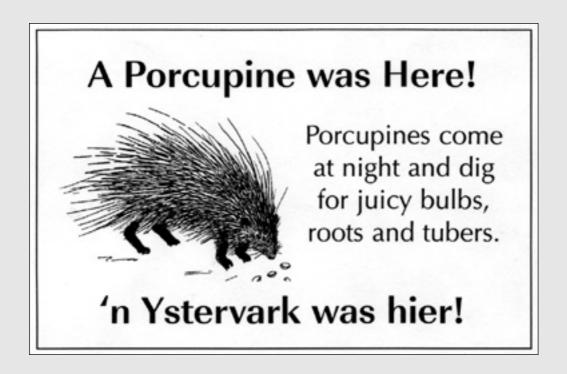
The title of this sign says it all: it summarises the theme. Plants are adapted for survival. Notice how the first line establishes a link between plants in the garden and those growing wild on the mountain. The horticulturist was asked to plant examples of the four types of adaptations within a few metres of the sign.

 300×600 mm aluminium sign. Single colour (black).



The theme of this sign is that fynbos vegetation needs occasional fires. The main text is short and concise (58 words), and scientists from the organisation. It is good to inform visitors about the importance and relevance of your organisation's additional information is given in the illustrations and captions. Notice the reference to an exciting discovery made by achievements.

 300×600 mm aluminium sign. Single colour (black).





Porcupines are regular visitors at Kirstenbosch NBG. They come at night and dig for juicy bulbs and roots, leaving untidy holes where they have been. A simple plant label has been used to explain the presence of these holes and dug-up bulbs.

 100×150 mm aluminium label on a galvanised steel peg. Single colour (black).



Focus rings can be attached to interpretive labels to draw attention to something small or difficult to see. In the Desert Botanic Garden (Phoenix, USA) they have used a focus ring to draw attention to a small cactus growing in the shade and shelter of a bigger bush. Notice that both the label and the subject are close to the path, where it's easy to read and see.



Telescopes help visitors to focus on far-away subjects. In the Desert Botanic Garden (Phoenix, USA) they have used a simple metal tube to frame the subject of the sign – viz. a bird nest in a barrel cactus. It was not necessary to have a glass eyepiece in the tube because you can easily see the nest with the naked eye. Telescopes are provided at two heights – one for adults and one for children.

USEFUL RESOURCES

Books

Filmer, Rob and Julie (1998). Giving people with disabilities the opportunity to enjoy our natural heritage. Eco-Access publication. (address below)

Ham, Sam (1992) – Environmental Interpretation – a practical guide for people with big ideas and small budgets, North American Press, USA.

Leadlay, Etelka and Greene, Jane (Eds.) (1998) – The Darwin Technical Manual for Botanic Gardens. Botanic Gardens Conservation International (BGCI), London. This manual contains an excellent chapter on interpretation in botanical gardens.

Roff, John (1995) – Making Meaning – trail tips for environmental educators, Share-Net. (contact details below)

Ryan, Tom (1995) – *Connecting with Visitors*, Douglas/Ryan Communication, 2153 48th Avenue, San Francisco, CA 94116, USA.

Van Wyk, Ben-Erik and Gericke, Nigel (2000) – *People's Plants – a guide to useful plants of southern Africa*, Briza Publications, PO Box 56569, Arcadia, 0007, Pretoria, South Africa.

Van Wyk, Ben-Erik, Van Oudtshoorn, Bosch and Gericke, Nigel (1997) – Medicinal Plants of South Africa, Briza Publications, PO Box 56569, Arcadia, 0007, Pretoria, South Africa.

Organisations

Eco-Access – Rob and Julie Filmer, PO Box 1377, Roosevelt Park, 2129, South Africa. Tel: +27 (0)11 477 3676, fax: +27 (0)11 447 3675, website: http://www.linx.co.za/eco-acc, email: eco-acc@cis.co.za. Eco-Access is an organisation which aims to create sustainable links between people with disabilities and the natural environment.

Environmental Education Association of Southern Africa (EEASA) – PO Box 394, Howick 3290 South Africa. Tel +27 (0)33 330 3931, Fax +27 (0)33 330 4576,

email: eeasa@futurenet.co.za, website: www.info-net.net/eeasa

National Association for Interpretation (NAI) – website http://www.interpnet.org, email: naiexec@aol.com.

Rhodes Environmental Education Unit – Rhodes Department of Education, PO Box 94, Grahamstown, 6140, South Africa. Tel: +27 (0)46 603 8389, fax: +27 (0)46 636 1495.

Share-Net – Wildlife and Environment Society of South Africa, PO Box 394, Howick, 3290, South Africa. Tel: +27 (0)33 330 3931, email: sharenet@futurenet.co.za. A wide range of inexpensive environmental education resources are available through Share-Net. These materials are available copyright-free to support the local adaptation and development of educational materials.

SADC Regional Environmental Education Programme – Tel: +(0)33 330 3931, email: sadc-reec@futurenet.co.za. Supports training, educational resources and networking processes in the SADC (Southern African Development Community) region.