

ACTION SHEETS

CLICK ON TITLES TO OPEN!

HOW TO USE THE ACTION SHEETS

1. For Teachers – Environmental Education Activities

LIVING WITH WILDLIFE

2. Human Wildlife Conflict
3. Monitoring Human-Wildlife Conflict
4. Reducing Crop-raiding by Elephants
5. Chilli Growing Guide
6. Protecting against Primates
7. Protecting Livestock from Predators
8. Elephant Dung Paper

WATER

9. Water for Life
10. Health Problems from a Lack of Water
11. Health Problems from Unsafe Water
12. Developing a Plan for Community Water Security
13. Roofwater Harvesting
14. Runoff Water Harvesting
15. Rock Catchment Rainwater Harvesting
16. Getting Groundwater – Safe Wells and Waterholes
17. Subsurface Dams
18. Useful Water Pumps
19. Spring Protection
20. Safe Water Transport and Storage
21. Ferrocement Tanks
22. Brick Tanks for Roofwater Storage
23. Making Water Safe for Drinking and Cooking

24. Water Filters
25. Solar Pasteurization
26. Building Toilets
27. Wash Your Hands
28. Making Soap
29. Water Hyacinth

SOILS

30. Conservation Agriculture
31. Practical Composting
32. Making Tea for Plants
33. Natural Pest and Disease Control
34. Mulching
35. Agroforestry
36. Planting Nitrogen Fixing Trees
37. Planting Fodder Banks for Livestock
38. Growing Fruit and Nut Trees
39. Green Manure/Cover Crops for Biomass Transfer
40. Living Fences
41. Windbreaks
42. Saving Soil and Water on Sloping Land
43. Drip Irrigation
44. Buried Clay Pot Irrigation
45. Rainwater Harvesting for Crops
46. Setting up a Community Seed Bank

FORESTS

47. Managing Forest Resources
48. Where is it from? Forest Product Certification
49. Tree Planting
50. Multipurpose Trees
51. Neem
52. *Moringa oleifera*
53. *Tephrosia vogelii*
54. *Gliricidia sepium*
55. *Sesbania sesban*
56. Where to Get Tree Seeds

ENERGY

57. Reducing Kitchen Smoke
58. Fuel Savers
59. Making a Fireless Haybox Cooker
60. Solar Cooking
61. Make your own Solar Cooker
62. Improved Stoves
63. Smoke Hoods
64. Solar Water Heating
65. Build Your Own Solar Water Heater
66. Biogas
67. Planting Trees for Fuelwood
68. Solar Lanterns
69. Energy Efficient Houses

LIVING BY THE OCEAN

70. Sustainable Use of Marine Resources
71. Marine Protected Areas

URBAN LIVING

72. Reduce, Re-use, Recycle
73. Paper Saving for Offices
74. Papier Mache
75. The Plastic Bag Problem
76. Growing Vegetables in the City
77. Fuel Briquettes
78. Permaculture
79. Sanitation in the City
80. Cleaning Chemicals – Impacts and Alternatives

CONTACTS DIRECTORY

HOW TO USE THE ACTION SHEETS

What are the PACE Action Sheets?

Somebody somewhere has found a solution! The idea behind the PACE project is to help spread simple solutions to environmental problems between communities in Africa. From fuel-saving stoves to rainwater-harvesting, compost making to forest product certification, the PACE Action Sheets aim to share vital information about practical ways in which people are addressing environmental problems.

The PACE Action Sheets were created alongside the following educational materials for use by schools, environmental education centres and community based organisations:

- The PACE FILM on VHS or DVD for schools, environmental education centres and community based organisations
- AFRICA, OUR HOME – a beautiful illustrated book for children, teachers and leaders, including environmental education activities on each topic
- The PACE DIRECTORY – Sources of further information (This has been printed, but a longer version, including some extra addresses, has been put on this CD)
- A wall poster

How were the PACE Action Sheets developed?

The PACE project was started to help organisations in one part of Africa get the benefits from the ideas and experiences of people working in other parts. By sharing ideas we don't have to start from zero, we can learn from other people's experiences and share our own findings with them, so everyone benefits. With improved communications technology, like mobile phones and the Internet, this is becoming easier and easier to do.

The PACE project research team focused on finding people who are developing and sharing straightforward solutions to common environmental problems. You will meet these people in the PACE films, and read about them in the book Africa Our Home. The PACE Action Sheets were compiled to share more detailed information on the solutions and projects featured in the films. They were prepared using information provided by organisations with relevant expertise and knowledge, and reviewed by experts.

Who can use the PACE ACTION SHEETS?

The PACE Action Sheets are aimed at people involved in raising awareness about environmental issues and developing practical ways to address environmental problems. The materials are being delivered to people with experience in spreading ideas and taking positive action. These people are often already involved in networks that allow good ideas to spread like wildfire. They include:

Community workers and representatives from Non-Governmental Organizations (NGOs).

- who could use the Action Sheets...
 - ... to inform their own networks
 - ... as a source of information on practical techniques and a starting point for new projects
 - ... as background information for health and environmental campaigns
 - ... at meetings, activities and training workshops with women, farmers, youth groups, community groups and leaders

Educators and curriculum developers

- who could use the Action Sheets...
 - ... for background information for their own classes and environmental projects
 - ... for classroom activities and experiments
 - ... in teacher training workshops
 - ... on field trips and in laboratories as the basis for experiments and investigations
 - ... for curriculum development

Newspaper and radio journalists

- who could use the PACE materials
 - ... as a basis for articles, programmes or special editions on particular topics, perhaps as a background to interviews with local experts

Using the PACE ACTION SHEETS

You can use the Action Sheets in any way you like. However, there are two main ways in which we hope that they will be useful:

1. Using the Action Sheets to put ideas into practice

The PACE Action Sheets may be useful as a starting point for project development. However, we all know that that written information cannot change the world - only people can do that, and people everywhere live in different environments with different constraints and opportunities. Before starting out on a new technique or project, talk to others and get local advice if it is available. Set things up so people can learn from your mistakes. One way to do this is to conduct experiments in which different techniques are compared with doing nothing. Measuring the results of these experiments against specific objectives will enable you to work out what works well where you live. Organisations often advise that it is wise to start small, and recognise exactly what you are investing (e.g. time, money, energy) and what you stand to lose or gain (e.g. health, money, new skills). It is also important to find out about and understand any health and safety risks associated with new activities or techniques, and take precautions against them.

How to obtain further information: At the end of each Action Sheet there is a list of useful organizations. You can contact these organizations for more information on putting the ideas covered into practice. Their full addresses are listed in the PACE directory. Some of the organizations listed can give further information about grants and may be able to assist with project development.

As well as contacts, each Action Sheet lists Internet websites, articles and books that could be useful sources of further information.

Using the Internet for research: The Internet is an amazing resource and keyword searches often come up with incredibly detailed information. However, it is always worth bearing in mind that the information you find on the Internet may not always have been rigorously reviewed. It is always wise to check your sources out carefully, and contact people for further information if need be.

Obtaining books and articles: In many areas, there are resource centres and libraries where books can be consulted for free. Many of the books listed will be found at the Practical Action resource centres. TALC, WEDC and ITDG Publishing are useful organisations to contact if you wish to purchase low cost reference material. Contact details for all of these organisations are listed in the directory.

2. Using the Action Sheets to raise awareness: These Action Sheets may be used for noncommercial, educational purposes, and may be adopted and adapted as you wish. For example, you could adopt the materials in part or in full for inclusion in educational materials, articles, programmes or campaign literature. Or you could adapt the materials so they have more local relevance (see Box on Adapting the PACE Action Sheets at the end of this section). Whatever way you use a PACE Action Sheet, please credit PACE and the sources listed in the acknowledgements section of the sheet.

PRINTING THE PACE ACTIONS SHEETS

These Action Sheets can be consulted on the screen, but if you wish to print them off, follow these instructions:

To print just one Sheet, open the Sheet you require on the screen, then go the 'File' on your menu, then click 'Print'.

If you have the facilities, don't forget to print double-sided (See Action Sheet 73: Paper-Saving for Offices)!

What you can do for us?

We need feedback on the Action Sheets, as well as all the other materials in the education pack. How useful is this material? How can we make it better? Are there special topics you need information about? Please let us know, and please send us material that you have developed based on the PACE project materials.

We also want to hear about the projects you are working on. Have the PACE educational materials inspired you to start up new initiatives? Was the information in the Action Sheets helpful? How can we improve them in future?

A USEFUL BOOK

Building the Capacity of Local Groups by I. Carter, 2001, TEARFUND.

Aims to increase confidence among group members, so they can successfully manage change.

Objectives include how to make the group more effective, how to improve communications, keeping records and note-taking, and how to plan for the future.

(Available to order from TALC – www.talcuk.org)

ACKNOWLEDGEMENTS

The PACE project is a collaboration between Tusk Trust and Siren Conservation Education. Each Action Sheet acknowledges the people involved in production and review. Inspiration for the format and style of the PACE Action Sheets came from the OUTREACH/TVE Education Packs (www.outreachworldwide.org) and the Hesperian Foundation educational materials (www.hesperian.org).

DISCLAIMER

The compilers of these Action Sheets have made every effort to ensure the accuracy and currency of the information presented. The authors disclaim any liability, loss, injury or damage incurred as a consequence, directly or indirectly, of the use and application of the contents of the PACE Action Sheets.

ADAPTING THE PACE ACTION SHEETS – THE POSSIBILITIES ARE ENDLESS

Make it more locally relevant...

- Substitute local species of plants and animals and local cultivation techniques
- Include stories on local environmental issues, controversies, and people
- Include artwork or photographs to reflect local cultures and environments

Communicate!

- Make it easier to understand by shortening sentences, simplifying grammar, and substituting simpler words
- Introduce new words and tell readers what to look for prior to their reading
- Eliminate idiomatic language and scientific jargon
- Translate into the language of the readers

Make it more active, for use in a group!

- Divide material into parts and assign small groups to make presentations
- Introduce material with questions to be answered through reading or listening
- Turn the material into a discovery or problem-solving lesson

Fit it into the learning curriculum...

- Convert environmental data into mathematical problems
- Assign students measurement and data collection tasks and analysing data in class
- Use environmental topics to teach processes
- Analyse the curriculum to find connections to the topic area
- Add reading or writing exercises as pre-work or post-work to environmental education demonstrations or activities

Give it a broader perspective...

- Have learners listen to, read, or discuss materials from different perspectives (e.g, the community, women, extension agents, farmers, children).
- Have learners research and write about the same problem from different perspectives

Cut down on hand-outs...

- Present the same materials in a different way
- Substitute with simpler, locally available materials
- Use one written copy rather than hand-outs and
 - read aloud
 - dictate the main points
 - outline the main points on a blackboard for students to copy
 - have students work in groups to share limited copies

Use it with people who can't read or write...

- Transform written ideas into simple pictures.
- Add more visual aids and demonstrations to the material
- Modify the material for use on radio, or other mass media, if these are important channels of information in your community
- Convert the material into stories, songs, puppet shows, and other forms of popular entertainment to convey environmental messages

SOURCE: Judee Blohm and Jamie Watts, Adapting Environmental Education Materials, U.S. Peace Corps, Washington, D.C. USA. (February, 1999) reproduced from OUTREACH/TVE Education Packs



Tusk Trust promotes the protection of wildlife and habitats, sustainable rural community development, environmental education programmes, responsible tourism, and constructive wildlife research throughout Africa.

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Siren Conservation Education sounds the alarm about the state of the planet, working to inspire people to care for and protect the natural world.

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