

HELDERBERG NATURE RESERVE RESOURCE CENTRE

SUBJECT SCHEDULE

Index

GENERAL

PLANTS

ANIMALS

LIFE FORCES

ENVIRONMENT

POLLUTION

CONSERVATION

WEATHER

RECYCLING/ WASTE MANAGEMENT

PEOPLE

USING NATURAL RESOURCES

NATIONAL MONUMENTS

FARMING

TOURISM

RECREATION

INTERNATIONAL WILDLIFE

HELDERBERG NATURE RESERVE

SPECIAL DAYS

| SUBJECT | SUBDIVISION | TOPIC |
|----------------|---|--|
| General | | |
| | Astronomy / sun | |
| | Light/sound/radiation/energy/electricity/time | |
| | Mineralogy/geology/soil / (Erosion, structure, etc) / Desertification | |
| | Geography/ Islands | |
| | Fossils (general works) | |
| | | Archaeology |
| | | Animal fossils |
| | | Plant fossils |
| | Biology | |
| | | Microbiology |
| | | Bacteriology |
| | Maps | |
| | | Conservation Area Map/ Peace Park Boundaries |
| | | Eco Maps of Southern Africa |
| | | Topographical Maps 1: 50 000 |
| | | Meteorological Map |
| | | Tourism Maps: The Flora Route |
| | | The Cape Peninsula Map |
| | | The Lourensford Map 1: 10 000 |
| | | Topographical Overlay Map: Knorhoek |
| Plants | | |
| | Regional | |
| | | Fynbos/ W. cape |
| | | Conservation |
| | | What is fynbos? |
| | | Specific areas: (Renosterveld, Strandveld (Cape Dune Thicket), Coastal fynbos (Sandplain or Lowlands fynbos) Mountain fynbos |
| | | Ericoids |
| | | Proteoids |
| | | Restioids |
| | | Subordinate genera |
| | | Plant-animal relationship |
| | | Fire and fynbos |
| | | Grassland/veld |
| | | Namaqualand/Richtersveld Knersvlakte |
| | | Desert |
| | | West Coast |
| | | Karoo |
| | | Other areas:(not fynbos areas) Bushmanland/sandveld/bokkeveld/ ridges/valley/thicket |
| | | Other areas outside South Africa |

| SUBJECT | SUBDIVISION | TOPIC |
|----------------|--|--|
| | Specific types | Flowers |
| | | Flowers |
| | | Specific types of flowers |
| | | Pollination |
| | | Trees/Forests |
| | | Specific trees |
| | | Forest |
| | | Cycads /Gymnosperms (pines) |
| | | Ferns/moss |
| | | Succulents/geophytes |
| | | Fungi/lichens/algae |
| | | Aquatic/seaweed/kelp |
| | | Grasses/lawns |
| | | Indigenous gardens/ water wise gardening |
| | Invader species/ Aliens / Weeds | |
| | | Biological control |
| | | Hacking |
| | Medicinal plants/ Edible plants/ veldkos/ Herbs | |
| | Endangered species | |
| | Pests (threatening plants) | |
| | Fruits and seeds | |
| | Poisonous plants | |
| | Carnivorous/ parasitic plants | |
| | New species | |
| | Plant diseases | |
| | Wood destroying organisms | |
| Animals | | |
| | Regional (e.g. climatic zone) | |
| | | Desert |
| | Reptiles | |
| | | Snakes |
| | | Crocodiles |
| | | Turtles & tortoises |
| | | Lizards/skinks/geckos/leguaan /chameleon |

| SUBJECT | SUBDIVISION | TOPIC |
|---------|-------------|---|
| Animals | Birds | |
| | | Migration |
| | | Raptors: Vultures, eagles, buzzards, goshawks, sparrow hawks, harriers, osprey, falcons & kestrels |
| | | Water birds: Grebes, pelicans, cormorants (except bank & crowned cormorants), darters, herons, egrets & bitterns, hamerkop, stork, Ibis & spoonbills, Flamingoes, ducks & geese, Rail, crakes, flufftails, gallinules, moorhens & coots, cranes, finfoots, jacanas, skimmers, kingfishers (except pygmy, woodland, brownhooded & greyhooded) |
| | | Seabirds: Penguins, Albatrosses, Shearwaters & petrels, Storm petrels, tropic birds, Gannets & boobies, Bank & crowned cormorants, Frigate birds, sheathbills, Skuas, gulls & terns |
| | | Rare birds / endangered species |
| | | Waders: Painted snipes, oystercatchers, plovers, snipes, godwits, sandpipers, stints, curlews, phalaropes, avocets & stilts, crab plover & dikkops |
| | | Garden birds / seed eaters: Pigeons & doves, mousebirds, bulbuls, sugarbirds, sunbirds, white-eyes, sparrows, weavers, bishops, gueleas, widows & cuckoofinch, twinspots, seedcrackers, firefinches, waxbills, canaries, siskins & finches |
| | | Game birds/ Savannah birds: Secretary bird, francolins, & guineafowl |
| | | Terrestrial birds/Flightless Ratites: Ostrich, buttonquail, bustards, korhaans, larks, finchlarks, Wagtails, pipits & longclaws |
| | | Nocturnal birds: Owls, nightjars |
| | | Other wild birds/Forest birds: Parrots, louries, cuckoos, coucals, swifts, trogons, woodland, brownhooded & greyhooded kingfishers, bee-eaters, rollers, hoopoe, woodhoopoes & scimitarbills, hornbills, barbets, honeyguides, woodpeckers & wrynecks, broadbills, pitas, swallows & martins, cuckooshrikes, drongos, crows & ravens, tits, penduline tits, spotted creeper, babblers, thrushes, chats, robins, rockjumpers, warblers, apalises, eremomelas, grassbird, rockrunner, cisticolas & prinias, flycatchers, batises, shrikes, puffbacks & whitetailed shrike |
| | | Alien/invader/exotic birds |

| SUBJECT | SUBDIVISION | TOPIC |
|---------|-------------|---|
| | Mammals | |
| | | Insectivores: Golden moles, hedgehog, elephant shrews, shrews, bats – except fruitbats |
| | | Primates: Monkeys & baboons, bushbabies |
| | | Pangolin |
| | | Hares & rabbits |
| | | Rodents: Squirrels, dormice, springhare, molerats, porcupine, cane-rats, dassie-rats, rats and mice |
| | | Carnivores: Wild dog, jackals, foxes, otters, badger weasel, polecat, mongoose, suricates, civets, genets, hyenas, aardwolf, cats |
| | | Aardvark |
| | | Elephants |
| | | Dassies |
| | | Odd toed ungulates: Zebra, rhinoceros |
| | | Even toed ungulates: Pigs, hippopotamus, giraffe, fallow deer, antelope, buffalo, wildebeest |
| | | Whales & dolphins |
| | | Dugong |
| | | Seals |
| | Fish | |
| | | Specific types |
| | Amphibians | |
| | Insects | |
| | | Parasites |
| | | Bees/wasps |
| | | Scorpions/millipedes/centipedes |
| | | Moths/butterflies/caterpillars |
| | | Grasshoppers/crickets/locusts |
| | | Spiders |
| | | Dragonflies/caddis flies/damsels /mayflies/ fish moths |
| | | Beetles/bugs/fireflies |
| | | Ants/termites |
| | | Flies/mosquitoes |
| | | Worms |
| | | Stick insects/mantids/cockroaches |
| | | Other – earwigs, weevils /peripatus |

| SUBJECT | SUBDIVISION | TOPIC |
|--------------------|--|---|
| | Other (shellfish, plankton etc.) | Marine |
| | | Jellyfish/bluebottles/hydra |
| | | Snails, whelks, mussels, perlemoen, shells |
| | | Decapods, crabs, rock lobsters, prawns, shrimps |
| | | Sponges/Corals |
| | | Sea horses |
| | | Plankton |
| | | Nudibranchs (seaslugs – without shells) |
| | | Starfish/anemone/sea urchins |
| | | Octopus |
| | Endangered species / Extinct species | |
| | | Mammals |
| | | Butterflies |
| | | Amphibians & reptiles |
| | | Birds |
| | | Fish |
| | | Other (e.g. pangolin) |
| | Alien/invader species | |
| | Diseases (threatening animals) | |
| | Biological control /pest management/ pesticides / Insecticides | |
| Life forces | | |
| | Evolution | |
| | Genetics/cloning/ Biodiversity | |
| | Ecology, fire/foodweb/symbiosis | |
| | Research/science /inventions | |
| Environment | | |
| | Rivers | |
| | | Unused number |
| | | Specific rivers |
| | Deserts | |
| | Sea/oceans/coral reefs | |
| | Mountains / gorges / caves /craters/ catchment areas/ heuweltjies | |
| | | Mountains / heuweltjies |
| | | Gorges |
| | | Caves |
| | | Craters/geysers |
| | | Catchment areas |
| | Wetland/mangroves / swamps / bogs / pans / dams | |
| | | Estuaries |
| | | Specific areas |
| | | Threats to wetland |
| | | Mangroves/swamps/bogs/ /marshes//pans/dams |
| | | Conservation & RAMSAR sites |
| | | Wetlands-plant-animal relationships |

| SUBJECT | SUBDIVISION | TOPIC |
|---|---|--|
| | Coastal/lagoons/dunes | |
| | National parks / sanctuaries / biospheres/ natural heritage sites /peace parks / Transfrontier parks/Game reserves/Marine reserves / Sanctuaries / Nature reserves/ African Park / Wilderness areas / World Heritage Sites / Botanical Gardens | |
| | | National parks/ game reserves |
| | | Nature reserves/ Peace parks/ Transfrontier Parks/ Marine reserves |
| | | African parks |
| | | Wilderness areas/ biospheres/ natural heritage sites/ conservancies / sanctuaries / World Heritage Sites |
| | | Botanical gardens |
| | | West Coast |
| | Place names/countries/cities | |
| Pollution | | |
| | Land/landfills & rubbish dumps | |
| | Water / sea / rivers / lakes /dams | |
| | Air | |
| | Types | |
| | Animals (and other) | |
| Conservation | | |
| | Conservation management-places | |
| | Conservation-plants | |
| | Conservation-animals | |
| | Conservation-people | |
| Weather | | |
| Recycling / Waste management | | |
| People | | |
| | History/art/ethnic groups/culture/myths | |
| | Population/influence/ land claims/political/policies/cites/ laws | |
| | Action groups | |
| | Conservationists | |
| | Traditional healers/ muti/witch doctors/ sangoma | |
| | Diseases of man/medicine | |
| | Nutrition of man/human body | |

| SUBJECT | SUBDIVISION | TOPIC |
|----------------------------------|--|---|
| Using natural resources | | |
| | Hunting | |
| | Culling | |
| | Trafficking: animals and plants | |
| | Sustainable utilization (approved 'green' usage e.g. solar energy) | |
| | | Urbanisation/development |
| | | Managing urban & cultural environment |
| | Water usage | |
| | Problematic practices (war/industry/etc) | |
| | | War |
| | | Industry |
| | | Other specific problematic practices/ fences / poaching / roads / long line fishing |
| | Environmental Education | |
| National Monuments | | |
| Farming | | |
| | Permaculture / aquaculture / hydroculture | |
| | Organic farming/crops | |
| | Problematic practices (snares, gintraps poisoning, spraying, etc) | |
| | Domesticated animals/ Animal husbandry | |
| Tourism | | |
| Recreation | | |
| | Trails / 4X4 trails / hiking / camping / cycling/horse riding | |
| | Birding /wildlife observation/ringing | |
| | Canoeing/safari | |
| | Diving/ballooning /caving | |
| | Whale watching | |
| International wildlife | | |
| Helderberg Nature reserve | | |
| | Curators | |
| | Management plan | |
| | Fauna and Flora | |
| | News articles | |
| | History, rainfall, maps,etc | |
| Special days | | |
| | Arbor Day | |
| | Marine week | |
| | World Environmental Week | |
| | National Water week | |
| | World Meteorological Day | |