

DAVID
ATTENBOROUGH'S
LIFE ON
LAND
A DVD ENCYCLOPAEDIA

The Primary School Keyword Index

LIFE ON LAND DVD ENCYCLOPAEDIA

With David Attenborough's *Life on Land* DVD Encyclopaedia, you can bring the wonder of the natural world directly into your classroom. Use it to excite and inspire your children into finding out more about the diversity of life on our planet and in doing so, help them to respect and care for the world we share.

The Primary School Keyword Index is specially designed to help you locate an exciting clip that could be used within a science or geography lesson.

These short, captivating clips serve as an ideal starting point for quality teaching and learning.

Of course, there is huge scope to use these clips right across the length and breadth of the primary curriculum. Through a combination of spectacular filming and exciting narration, every clip has the power to engage children in learning and stimulate their curiosity and creativity. As such, they could be used as a source of inspiration for story writing and poetry, artwork or even musical composition.

In recent years, the focus in education has centred around helping our children to develop learning skills and attitudes that will be needed in preparation for a lifetime of change. The important lifelong learning skills and attitudes of resilience, resourcefulness and cooperation can be found frequently in nature and have therefore been included in the Primary School Keyword Index under Learning to Learn Links.



The Primary School Keyword Index

Keyword Link	Disc	Episode	Chapter	Description
ADAPTATIONS				
Animals	9	10	1	Features Sand Grouse surviving the dryness of the desert due to their specially adapted feathers.
Poles	10	1	1	Features the Arctic Fox surviving in one of the coldest environments on Earth due to its thick insulating fur.
	12	7	3	Features the Sea Otter and how it is adapted to life in water due to its webbed feet and furry wet suit.
Jungles	12	8	14	Features the acrobatics of Gibbons which are perfectly adapted to life in the tree tops.
Plants	4	6	5	Features the Saguaro Cactus which is perfectly adapted to life in the desert by its ability to store water.
	4	6	3	Features the Cabbage Groundsel folding in on itself to avoid death from freezing.
BEHAVIOUR				
Communication	12	7	14	Features Humpback Whales communicating with each other by sound.
	11	5	10	Features the deep-throated growling of Lions as they communicate prior to a hunt.
Defence	3	2	10	Features the painful stinging mechanism of a Nettle.
	10	2	8	Features the Pangolin defending itself from biting ants with its horny scales.
Camouflage	5	1	5	Features the Horned Lizard safely sunbathing by being almost invisible due to its brilliant camouflage.
	2	4	8	Features a Stick Insect that, through camouflage, looks exactly like a dried leaf.
Keeping warm	5	1	1	Features Marine Iguanas cleverly heating and cooling their bodies.
	9	10	7	Features Emperor Penguins huddling together to keep warm.



Keyword Link	Disc	Episode	Chapter	Description
Caring for offspring	6	5	8	Features a Caiman caring for her offspring by helping them find their way out of their den and into a nursery pool.
	11	6	12	Features a Rat carrying her babies, which prevents them from drowning in a sewer.
HABITATS				
Polar Antarctic	9	10	7	Features Emperor Penguins enduring the harshness of the Antarctic Winter.
	12	7	5	Features Seals sliding on ice in the frozen waters that fringe the Antarctic.
Arctic	12	7	6	Features the icy wilderness of the Arctic and the plight of Seal pups.
Deserts	1	1	15	Features a typical desert landscape and explains how Scorpions are able to survive in this dry, hostile environment.
	11	5	4	Features the Fennec Fox that uses its large ears as radiators to survive the sweltering heat of the Sahara Desert.
Rainforests	13	9	2	Features various monkeys adapted to living in the rainforest canopy, including the Pygmy Marmoset.
	3	1	9	Features an Orang-utan feasting upon a durian fruit in the Borneo rainforest.
Mountains	4	6	2	Features snow melting in the Alps and slowly revealing Snowbells.
Coasts	8	5	16	Features waves crashing against the Californian coastline and the suicidal risks Surfbirds are prepared to take when feeding from the coastal rocks.
	8	5	17	Features a variety of Wading birds feeding along a sandy shoreline.
	12	7	4	Features a crowd of Sea Lions in a sheltered New Zealand cove.
Rivers	8	5	2	Features the Wrybill, the only bird with a beak curved to one side, allowing it to collect little insects under the pebbles in rivers and streams.

Keyword Link	Disc	Episode	Chapter	Description
	12	7	2	Features the shrew-like Desman which has a special snorkel, webbed feet and thick fur to allow it to swim in rivers.
Ponds	2	4	12	Features a variety of pond creatures including Diving Beetles, Fairy Wasps and Water Fleas.
Gardens	10	2	6	Features a common garden visitor, the Hedgehog, protecting itself by rolling into a spiny ball.
	2	4	1	Features the friend and foe relationships between gardeners, Aphids, Ants and Ladybirds.
Woodlands	8	6	20	Features the delightful sound of the dawn chorus in a typical English woodland.
	4	4	2	Features a variety of insects and birds feeding on and making their homes in the oak tree.
Towns	11	6	10	Features Raccoons scavenging for human leftovers in cities.
	11	6	12	Features Brown Rats thriving in the sewers beneath our feet.
	9	10	9	Features Black Vultures thriving in the concrete wilderness of Sao Paulo.
	9	10	15	Features crowds of tourists gathered to watch Little Penguins return to their nest burrows under houses in Australia.
Volcanic landscapes	8	4	11	Features the inhabitants of a volcanic island which include Marine Iguanas and Galapagos Hawks.
	6	5	1	Features Giant Galapagos Tortoises heating themselves on hot volcanic rocks.
HABITAT DESTRUCTION				
Dams	11	4	5	Features the American Beaver radically changing the course of a river by constructing a dam.
	15	4	8	Features the destructive impacts of the Aswan Dam in Egypt on farming and wildlife.
Endangered species	5	2	15	Features the Golden Frog which is in danger from disease, hunting, and road construction.
	11	6	1	Features Giant Pandas in captivity, and explains why they are threatened with extinction.
Extinction	9	10	17	Features the Dodo and other birds which are now extinct due to human persecution.

Keyword Link	Disc	Episode	Chapter	Description
Tourism	15	4	14	Features tourism on a Greek island and how it is preventing Loggerhead Turtles from nesting.
Farming	13	10	13	How farming has changed our landscapes and ecosystems on a vast scale.
	15	4	10	How human technology has enabled even the most hostile places to be farmed.
Pollution	15	4	5	Features the devastating impact of oil spillages from tankers on marine habitats.
	15	4	6	Features a seabed off the coast of France which has been decimated by raw sewage.
CONSERVATION				
	9	10	20	Features the Whooping Crane and how captive breeding and the patient rearing of chicks by hand has brought this bird back from the brink of extinction.
	13	10	1	Features Orang-utans rescued from captivity and returned to the wild.
GROUPING & CLASSIFICATION				
	8	6	5	Features a variety of Finches and how different species can be identified by their colouration.
	5	2	7	Features the huge number of frog species and how they can be grouped according to whether they walk, climb, hop or glide.
INTERDEPENDENCE				
	7	3	22	Features Oxpeckers removing earwax, dandruff and ticks from a variety of large mammals.
	5	1	3	Features the dependency of the Dead Horse Arum plant on a lizard for its seed dispersal and the dependency of the lizard on the plant for warmth and food.
	3	1	10	Features the dependency of Acacia Trees on Elephants for seed dispersal and the dependency of the Elephants on these trees for food.
MOVEMENT				
Running	11	5	11	Features a Cheetah using its incredible speed to capture its prey.
Climbing	12	8	14	Features the acrobatics of Gibbons which are perfectly adapted to life in the tree tops.

Keyword Link	Disc	Episode	Chapter	Description
	12	8	5-6	Shows how Squirrels and Monkeys are adapted for climbing and jumping around in trees.
Flying	7	2	2	Features the Albatross taking off from its runway and then effortlessly defying the force of gravity whilst in flight.
Skeletons	12	7	13	Features the vast skeleton of a Blue Whale, the largest animal alive today.
	7	2	8	Features the skeleton of a Golden Eagle and its weight-saving features to allow it to fly.
Swimming	12	7	4	Features Sea Lions and how they are perfectly adapted for swimming.
	8	5	21	Shows how Galapagos Penguins have traded in the ability to fly for perfect streamlining and wings acting as paddles to swim underwater.
FEEDING				
Teeth	11	4	1	Features an Agouti eating the hardest of nuts with its chisel like teeth.
	11	6	2	Features the Naked Mole Rat burrowing and feeding on underground tubers with the help of its large incisors.
	6	4	4	Features the specialised canines of a Spitting Cobra which ejects venom into the face of a predator.
Hunting	5	3	15	Features a Giant Monitor Lizard chasing and capturing a rabbit in the Australian desert.
	13	9	7	Features Baboons catching flamingoes in a soda lake in Africa.
Nutrition	13	9	4	Features a Howler Monkey getting the nutrition it needs from leaves high up in the canopy of a tropical rainforest.
	10	3	1-2	How Sloths cope with a diet of leaves, which are not very nutritious, by saving energy and moving extremely slowly.
	5	1	11	Features a Python swallowing and digesting a deer.
Growth	12	7	13	Features the vast dimensions of the planet's largest creature - the mighty Blue Whale.
	10	1	5	Features birth and growth of a baby Kangaroo inside its mother's pouch.
Excretion	7	3	7	Features Geese constantly excreting undigested grass.

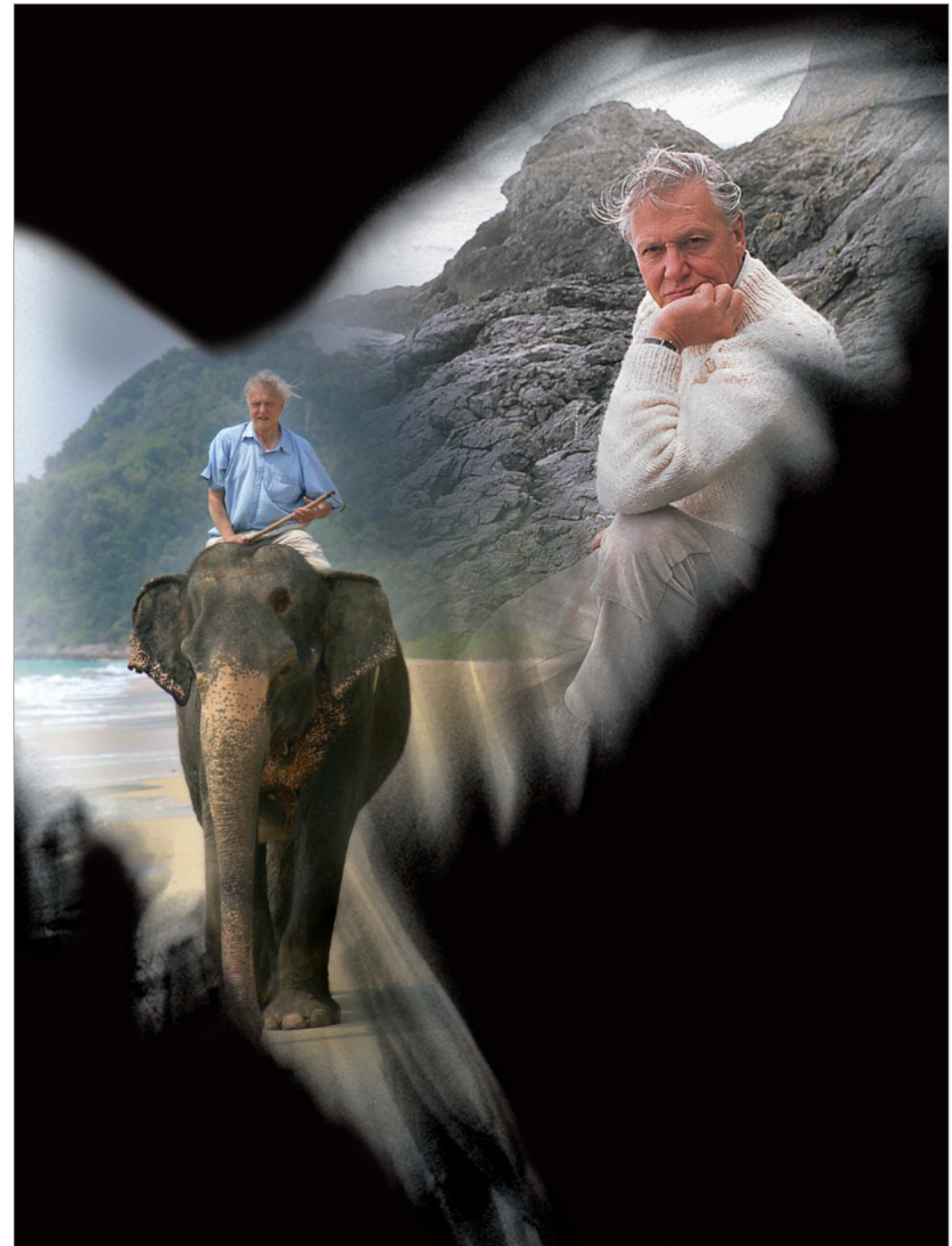


Keyword Link	Disc	Episode	Chapter	Description
Food chains	10	3	5	Features a typical Savannah food chain where grazers such as Wildebeest consume grass and in turn become food for predators such as Crocodiles.
	8	4	10	Feature a volcanic soda lake and the food chain it provides (Algae, Flamingos and Fish Eagles).
PLANTS				
Seeds	3	1	5	Features the versatile ways that plants have evolved to transport and disperse their seeds far away.
	3	1	6	Features the epic voyage of a Sea Bean which can travel for up to a year crossing seas and oceans.
Roots	4	4	8	Features the roots of the murderous Strangler Fig growing and stealing nutrients from other trees.
	3	2	5	Features plant roots absorbing water from the soil by using a time lapse camera.
Leaves				Explains how plants make their own food from a simple mixture of air, water and minerals.
Growth	3	2	6	Features the Sycamore Tree and how it sucks up water by its roots but then loses 90% of it through its leaves.
	3	2	1	Features the growth of a Cheese Plant into an adult and outlines what is necessary for such growth.
Nutrition	4	6	8	Shows how plants living on Mt Roraima, where there is virtually no soil or nutrition, have to get enough nutrition by eating animals. Features Pitcher Plants and Sundew.
Flowers	3	3	2	Features the male and female reproductive parts of a wild Geranium.
	3	3	19	Features the world's largest flower, attracting insects by smelling like a rotten fish.

Keyword Link	Disc	Episode	Chapter	Description
Pollination	3	3	1	Features the pollen from Elephant Grass being transferred from one plant to another by the wind.
	3	3	3	Features a nectar-feeding bird transferring pollen from one Kangaroo Paw Plant to another.
	3	3		Features the pollen of Indian Balsam being transferred from one plant to another by a bee.
REPRODUCTION				
Mammals	10	1	16	Features the birth of a Wildebeest and how it was dependent on its mother's placenta whilst inside her womb.
	10	1	5	Features a newborn Kangaroo gaining the nutrition needed for growth inside its mother's pouch.
Birds	9	8	14	Features the production and laying of a bird's egg.
Amphibians	5	2	3	Features the life cycle of a Salamander from egg to tadpole to adult.
SENSES				
Seeing	8	4	5	Features a Kestrel using its ultra-violet vision when hunting voles.
	8	4	6	Features a Vulture detecting a dead animal from 1000 feet up in the sky by using its acute sense of vision.
Hearing	11	5	4	Features a Fennec Fox using its huge ears to hear the faintest of sounds in the sand.
	10	2	10	Explains how Bats use a special hearing system called echolocation to detect their prey.
	8	4	3	Features the Great Grey Owl using its hearing to detect the faint scratching sound of a lemming buried deep within the snow.
Smelling	12	7	6	Features a Polar Bear detecting seal pups in a deep snow den due to its extraordinary sense of smell.
	11	6	4	Features a Wild Boar detecting food underground with its highly sensitive nostrils.
	8	4	7	Features a Turkey Vulture using its acute sense of smell to locate a slab of meat buried amongst the leaf litter.

Keyword Link	Disc	Episode	Chapter	Description
Touching	11	6	1	Features a Raccoon identifying different objects on a riverbed by touch alone.
	10	2	4	How the Star Nosed Mole uses its highly sensitive nose to detect prey by touch.
SEASONS				
	3	1	1	Features the transformation of a forest floor with the onset of spring.
Food storing	7	3	4	Features Woodpeckers hammering acorns into an oak tree so that they have an all year round food supply.
	10	3	3	Features a Pika preparing for the winter months by collecting and storing food in its rocky larder.
Hibernation	11	6	8	Features a Grizzly Bear hibernating in winter and fattening itself up in the spring and summer months
SHELTERS				
	2	5	9	Features Termites constructing a gigantic mound which is equipped with protective features.
	3	2	8	Features a caterpillar building a tented shelter from the leaf it is feeding upon.
WATER & LIFE				
	8	5	2	Features the Wrybill feeding from a stream high up in the New Zealand Alps.
	5	2	15	Features the Spadefoot Toad emerging from its sandy burrow to take full advantage of the falling rain.
WATER & AIR RESISTANCE				
	8	5	21	Features the Galapagos Penguin combating water resistance with its streamlined body.
	8	5	19	Features Boobies streamlining their bodies when diving so that they can catch their underwater prey.
	7	2	3	Features an Osprey reducing air resistance by making itself and its catch more streamlined.
WORSHIP				
	11	6	12	Features a temple in Northern India where Rats are revered and allowed to swarm in great numbers.

Keyword Link	Disc	Episode	Chapter	Description
CHILDREN'S FAVOURITES				
Dinosaurs	5	1	14	Features the fossilised remains of dinosaurs including the legendary Tyrannosaurus rex.
Mini beasts	1	1	1	Features a fascinating montage of mini-beasts at very close quarters.
	1	1	5	Features a Snail thriving in dark, damp conditions.
	1	3	5	Features a Spider skilfully constructing its web.
Space exploration	13	10	14	Features the red planet, Mars, and explores the possibility of human colonisation.
LEARNING TO LEARN				
Planning ahead	11	6	6	Features a Fox cleverly planning ahead by burying its catch for when food is scarce.
	10	3	3	Features a Pika preparing for the winter months by collecting and storing food in its rocky larder.
Resilience	11	5	9	Features the dogged determination of a pack of Wolves when trying to catch an elk.
	13	10	9	Features the San bushmen of the Kalahari Desert running down their prey over a vast distance.
Resourcefulness	9	10	11	Features the resourcefulness of a Japanese Crow when faced with the problem of cracking open a nut.
	13	10	3	Features an Orang-utan solving the problem of extracting insects from deep within a tree trunk by making a multi-functional tool.
Teamwork	12	7	11	Features the superb cooperation between Dolphins when sweeping fish onto a muddy river bank.
	2	5	3	Features Bees working together to help make their colonies a success.
	2	5	8	Features a million or more Army Ants working together to establish a new nesting site.



Front cover & title page photography: ©Nick Garbutt/naturepl.com (chameleon); © Neil Lucas (venus flytrap); © Staffan Widstrand/Bruce Coleman (toucan); ©Fotolincs/Alamy (damsselfly).
 Index photography (l to r): ©Peter Adams/Getty Images; ©Nick Garbutt/naturepl.com; ©BBC; ©Staffan Widstrand/Bruce Coleman (p 4); ©Steve Bloom; Neil Lucas; ©BBC; © Duncan McEwan/naturepl.com (p 8); ©BBC (end page).