

DAVID
ATTENBOROUGH'S
**LIFE ON
LAND**
A DVD ENCYCLOPAEDIA

The Secondary School Keyword Index

LIFE ON LAND DVD ENCYCLOPAEDIA

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

Science teachers have been using David Attenborough's work for many years to support teaching in the classroom, but now it comes in a format that is easier to use and more accessible. With a comprehensive index and on-screen search menu it is possible to find clips on particular subjects or animal species quickly and easily.

The Secondary School Keyword Index is designed to help you locate interesting and relevant clips that could be used in science lessons from KS3 to KS5, re-enforce key concepts and promote discussion. For KS4, the index also highlights which sections relate to each exam board specification.

Of course, there is huge scope to use these clips right across the length and breadth of the secondary curriculum. Through a combination of spectacular filming and exciting narration, every clip has the power to engage students 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. They could also be used to support PSHE, Citizenship and General Studies.

The Secondary School Keyword Index

SCHEME OF WORK: OCR 21st Century (OCR 21st), OCR Gateway (OCR Gate), AQA A, Edexcel (Edex)

Keywords	Disc	Episode	Chapter	Description	Scheme of Work	Length
ADAPTATION (ANIMALS)						
Deserts	9	10	1	Features Sand Grouse using special feathers to supply their young with water.	OCR Gate, AQA A, Edex	3 mins
	10	1	11-12	Kangaroos and Wallabies in the Australian desert keeping cool by licking their wrists and letting young joeys drink from their mouths.	OCR Gate, AQA A, Edex	5 mins
Poles	10	1	1	The Arctic Fox's ability to survive in one of the coldest places on Earth due to its thick insulating fur.	OCR Gate, AQA A, Edex	1.5 mins
	9	10	7	Emperor Penguins' ability to breed under extreme conditions on the Antarctic ice.	OCR Gate, AQA A, Edex	1.5 mins
Jungles	12	8	14	Features the acrobatics of Gibbons which are perfectly adapted to life in the tree tops.	OCR Gate, AQA A, Edex	3 mins
	13	9	2	Various monkeys adapted to living in the rainforest canopy, including the Pygmy Marmoset.	OCR Gate, AQA A, Edex	5.5 mins
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.	OCR Gate, AQA A, Edex	2 mins
	12	7	2	Features the shrew-like Pyrenean Desman which has a special snorkel, webbed feet and thick fur to allow it to swim in rivers.	OCR Gate, AQA A, Edex	2 mins
Seas	12	7	3	Sea Otter's adaptations to life in water with its webbed feet and thick insulating fur.	OCR Gate, AQA A, Edex	5 mins
Urban habitats	9	10	9-13	Black Vultures scavenging on rubbish dumps, Japanese Crows exploiting traffic to crack nuts, and Starlings roosting in Glasgow's warm buildings.	OCR Gate, AQA A	11 mins



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	11	6	10-13	Foxes, Raccoons, Black Bears and Rats thriving in our cities by scavenging on human left-overs.	OCR Gate, AQA A	14.5 mins
Hibernation	5	1	12	Painted Turtles surviving freezing temperatures by hibernating.	OCR Gate, AQA A	3 mins
	10	2	12	Little Brown Bats hibernating in caves to survive the winter.	OCR Gate, AQA A	3 mins
	11	6	8	Physiology of hibernation featuring the Grizzly Bear.	OCR Gate, AQA A	8 mins
Feeding Strategies	7	3	5-6 & 10-12	Different bird strategies for feeding on tree sap and nectar. Features Sapsuckers cutting sap wells and Hummingbirds with different shape and size bills.	OCR Gate, AQA A, Edex	5.5 mins & 7 mins
	1	2	12-13	How different Moths feed on tree sap and nectar, including the Hummingbird Hawk Moth.	OCR Gate, AQA A, Edex	3.5 mins
	11	6	10	The feeding strategies of omnivores, such as the Raccoon, which are some of the most adaptable animals in the world.	OCR Gate, AQA A, Edex	4.5 mins
	5	1	5	Regal Horned Lizard using camouflage to protect itself while sunbathing.	OCR Gate, Edex	2 mins
	8	6	4	The Great Potoo from South America blending perfectly into the tree bark.	OCR Gate, Edex	2 mins
	9	10	2	Temminck's Courser nesting on the ground with perfectly camouflaged eggs.	OCR Gate, Edex	1 min
ADAPTATION (PLANTS)						
POLES	4	6	1	How some plants survive in the extreme arctic north where there are very little nutrients, water or light. Features algae, lichens and tundra flowers.	OCR Gate, AQA A, Edex	5.5 mins

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Deserts	4	6	4-6	How plants living in deserts have evolved unique and bizarre strategies for coping with lack of water. Features the Quiver Tree, Saguaro Cactus and Window Plant.	OCR Gate, AQA A, Edex	8 mins
Mountains	4	6	2-3	Adaptations of alpine plants to extreme temperatures. Features the Cabbage Groundsel folding in on itself to avoid death from freezing.	OCR Gate, AQA A, Edex	9 mins
	4	6	8	Adaptations of plants living on Mt Roraima, the wettest place on earth where the main problem is lack of nutrients – so plants here have turned to carnivory.	OCR Gate, AQA A, Edex	6.5 mins
Jungles	3	2	1	Rainforest plants adapted to growing towards the canopy and light.	OCR Gate, AQA A, Edex	4 mins
Swamps & Coast	4	6	9-11	Plant adaptations for surviving in wetlands, mangroves and oceans.	OCR Gate, AQA A, Edex	13 mins
BEHAVIOUR						
Learning	13	9	1	How some troops of Capuchin Monkeys have learned and passed on behaviours, such as opening up clams and use of medicinal plants.	OCR 21st	8 mins
	13	10	1-3	Orang-utans showing a variety of learning behaviours such as tool use and imitating human activities.	OCR 21st	10 mins
	9	10	11	Resourcefulness of a Japanese Crow when faced with the problem of cracking open a nut.	OCR 21st	2 mins
Tool Use	7	3	19	New Caledonian Crows using specially-crafted stick tools to spear grubs.	OCR 21st	4.5 mins
	12	7	3	Sea Otter using stones to break open shells.	OCR 21st	5.5 mins
	13	10	3-4	Orang-utans using specially-crafted tools to fish for termites. Chimpanzees using rocks to crack open nuts.	OCR 21st	5 mins

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Social Groups	13	9	6 & 8	Monkey social groups and hierarchies. Features Touque Macaques, where the young are born into strict class systems and Gelada Baboons, which have the largest social groups of all monkeys and a complex communication system.	OCR 21st, Edex	6 mins & 4 mins
	11	4	8	Naked Mole Rats are the only mammal to have a social organisation like insects with one breeding female, where all her offspring are workers for the colony.	OCR 21st, Edex	4 mins
	2	5	2-3	Colonial breeding and organisation of supersocieties in Bees and Wasps.	OCR 21st, Edex	9 mins
Partnerships	7	3	20-21	Features European Robins feeding on insects disturbed by gardeners and wild boar, and the Seychelles' Robin following Giant Tortoises through the leaf litter.	OCR 21st	5 mins
	7	3	22	Features Oxpeckers removing earwax, dandruff and ticks from Hippos, Zebras and Giraffes.	OCR 21st	3 mins
	9	9	14	Brent Geese nesting close to Snowy Owls for protection against Arctic Foxes.	OCR 21st	3 mins
Territory Defence	5	3	3-4	Lizards displaying territorial defence. Features Jacky Lizard arm-waving and Anole Lizard flashing red skin-flap.	OCR 21st	3.5 mins
	6	5	7	Features American Alligators' dramatic territorial display of bubbling and jaw-snapping.	OCR 21st	3.5 mins
	8	4	9	Fish Eagles defending their territories from the air in breathtaking talon-grappling combat.	OCR 21st	1.5 mins
	8	6	10	Moorhens defending their territories with visual displays and vicious claw-fights.	OCR 21st	2.5 mins

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CLASSIFICATION						
Birds	8	6	5	Features a variety of Finches and how each species can be identified by their plumage.	OCR Gate, Edex	2 mins
Amphibians	5	2	7	Evolution of amphibians and how over 5000 different species are grouped into frogs and toads.	OCR Gate, Edex	2.5 mins
CONSERVATION						
Captive Breeding	9	10	20	Features the Whooping Crane and how captive breeding and patient hand-rearing of chicks has brought this bird back from the brink of extinction.	AQA A, Edex	6 mins
Reintroduction	13	10	1-2	Features Orang-utans rescued from captivity and returned to the wild.	AQA A, Edex	7.5 mins
Zoos	11	6	1	Features Giant Pandas in captivity, and explains why they are threatened with extinction.	AQA A, Edex	2 mins
Extinction	9	10	16-19	Features the impact human persecution has had on birds, including extinction of the Dodo, Passenger Pigeon and Great Auk.	AQA A, Edex	9 mins
Habitat Destruction	13	10	13	How farming has changed our landscapes and ecosystems on a dramatic scale.	OCR Gate, AQA A, Edex	2.5 mins
	15	4	13-14	Wetland destruction by land draining and threat to turtle nesting sites by tourism.	OCR Gate, AQA A, Edex	5 mins
Pollution	15	4	5-6	The devastating effects of oil spillages from giant tankers and sewage pollution on marine habitats.	OCR Gate, AQA A, Edex	6 mins
	15	4	9	Shows how chemical fertilizers accumulating in the soil can affect the breeding and survival of Bald ibis.	OCR Gate, AQA A, Edex	2 mins
COMMUNICATION						
Sound	8	6	11	Woodpecker drumming to communicate ownership of territory.	Edex	3 mins



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Songs/ Calls	8	6	13-17	The amazing range of sounds produced by a variety of birds, and the mechanics behind bird songs.	Edex	9 mins
	11	5	9	Features Wolves howling to communicate with pack members and to claim territories.	Edex	5.5 mins
	12	7	14	Features the complex songs and communication of Humpback Whales.	Edex	2.5 mins
	13	9	3-5	Various monkeys using alarm calls to communicate danger. Howler Monkeys calling to mark their territory.	Edex	15.5 mins
Visual Signals	5	3	5-7	How Chameleons communicate with rivals and mates by dramatically changing their skin colour.	Edex	7.5 mins
	13	9	8	Gelada Baboons have red chest badges that signal their strength and virility to avoid physical conflicts.	Edex	4 mins
	8	6	9-10	How House Sparrow bib size signals their social status, and how Moorhens signal their strength with red head shields.	Edex	4 mins
Pheromones	2	4	14	Alcon Butterfly caterpillars using pheromones to disguise themselves as ant larvae to hide in ant nests.	Edex	8.5 mins
	5	2	2	Alpine Newts using pheromones to attract a mate.	Edex	3 mins
Scent	11	5	7	Bush dogs using scent marking to define their territories.	Edex	2.5 mins

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COMPETITION						
Animals	2	5	7	Competition for seeds between Harvester Ants and Long - Legged Ants.	OCR Gate, AQA A, Edex	3.5 mins
	9	9	9	The extreme competition for food in Pelican chicks, ultimately ending in siblicide.	OCR Gate, AQA A, Edex	2 mins
	9	7	10	How male Sandpipers on the arctic tundra compete for females with a comical display.	OCR Gate, AQA A, Edex	3 mins
	10	3	8-10	Rutting in various ungulates, including Bison, Oryx, Topi, Black Buck and Big-horned Sheep, competing for mates.	OCR Gate, AQA A, Edex	9 mins
Plants	4	4	1	Competition between plants in a deciduous wood, from flowers and shrubs to trees.	OCR Gate, AQA A, Edex	4.5 mins
	4	4	8	How the Strangler Fig kills off its host tree during intense competition over food and light.	OCR Gate, AQA A, Edex	3 mins
	4	4	11	Competition among plants re-growing after a forest fire in Australia.	OCR Gate, AQA A, Edex	6.5 mins
COOPERATION						
	11	5	8-9	Social organisation of dogs. African Wild Dogs live in big hunting groups to bring down wildebeest. American Wolves cooperate in hunting elk and maintain a strict dominance hierarchy within the pack.	OCR 21st, Edex	10 mins
	12	7	12	Features the superb cooperation between Common Dolphins whilst feeding on a baitball of sardines.	OCR 21st, Edex	3 mins
	2	5	8	Features a million or more Army Ants cooperating in hunting and nesting.	OCR 21st, Edex	6 mins
DECOMPOSERS						
	1	1	12-13	Features the Earthworm and its importance for the soil, and the 6ft long Giant Gyps Earthworm.	OCR Gate, AQA A	4.5 mins

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	4	4	9	How Fungi decompose leaf litter with digestive juices and release nutrients back into the soil. Features various Fungi in a British woodland.	OCR Gate, AQA A	5 mins
ECOLOGICAL NICHES						
	13	9	2-3	How different monkey species co-exist by eating different foods in a rainforest.	OCR Gate	11 mins
	8	5	17	How a variety of wading birds feed on the same beach by targeting different food sources.	OCR Gate	1.5 mins
	10	3	6	How a variety of different animals on the African plains can all feed on the Acacia Tree.	OCR Gate	6 mins
EVOLUTION						
Invertebrates	1	1	1-5	Evolution of land invertebrates, how they have adapted to survive out of water and their relationship with green plants.	OCR 21st, OCR Gate, AQA A, Edex	15 mins
Amphibians	5	2	1	Features the Lungfish, an ancient relative of the first vertebrate to haul itself out of water, leading to the evolution of the amphibians.	OCR 21st, OCR Gate, AQA A, Edex	3.5 mins
	5	2	7	Shows the great variety of frogs and toads on earth today.	OCR 21st, OCR Gate, AQA A, Edex	2.5 mins
Reptiles	5	3	1-2	Shows how reptiles became the first completely land-based vertebrates by evolving waterproof skins and shelled eggs.	OCR 21st, OCR Gate, AQA A, Edex	7 mins
	6	4	1	Evolution of snakes and why they lost their limbs.	OCR 21st, OCR Gate, AQA A, Edex	4.5 mins
	6	5	1-2	Evolution of Tortoises and Turtles, some of the largest and most ancient of reptiles, and how they evolved their shells.	OCR 21st, OCR Gate, AQA A, Edex	7 mins
Birds	7	1	5-8	Shows how birds evolved from dinosaurs. Features Pterosaurs, earliest bird fossils, evolution of feathers, and Archaeopteryx.	OCR 21st, OCR Gate, AQA A, Edex	6.5 mins
	7	1	9-13	Flightlessness in birds including the extinct Giant Terror Bird, Ostrich and Galapagos Cormorant.	OCR 21st, OCR Gate, AQA A, Edex	10 mins

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	7	1	14-19	How birds evolve on isolated islands, using New Zealand as an example.	OCR 21st, OCR Gate, AQA A, Edex	20 mins
Mammals	10	1	1-3	Evolution of warm-bloodedness, fur and mammalian way of breeding. Features some of the earliest mammals, the Echidna and Platypus.	OCR 21st, OCR Gate, AQA A, Edex	17 mins
	10	1	4-5	Evolution of marsupials in Australia, featuring Kangaroos and now extinct marsupials.	OCR 21st, OCR Gate, AQA A, Edex	6 mins
	10	2	1-2	Evolution of mammals featuring small shrew-like insectivores.	OCR 21st, OCR Gate, AQA A, Edex	6.5 mins
	12	8	7-8	Evolution of flight in mammals, including Flying Squirrels and Bats.	OCR 21st, OCR Gate, AQA A, Edex	12 mins
Humans	13	10	1	Evolution of the primate brain featuring Orang-utan behaviours.	OCR 21st, OCR Gate, AQA A, Edex	3 mins
	13	10	7-8	Features Chimpanzees walking upright, illustrating how our early ancestors may have evolved.	OCR 21st, OCR Gate, AQA A, Edex	3.5 mins
	13	10	9-14	Evolution of human societies from hunting to domestication of cattle and finally to farming of crops.	OCR 21st, OCR Gate, AQA A, Edex	28.5 mins
FARMING						
	13	10	13	How farming has changed our landscapes and ecosystems on a dramatic scale.	OCR 21st, OCR Gate	2.5 mins
	14	2	2-4	Domestication of cattle, sheep and pigs.	OCR 21st, OCR Gate	5 mins
	14	2	9-10	Traditional farming of olives and grapes for wine-making in the Mediterranean.	OCR 21st, OCR Gate	5 mins
GROWTH						
Animals	10	1	5	Features birth and growth of a baby Kangaroo inside its mother's pouch.	OCR Gate	3 mins
	12	7	13	The vast dimensions of the world's largest animal - the Blue Whale	OCR Gate	5 mins



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Plants	3	2	1	Shows the growth of a Cheese Plant to reach light above the rainforest.	OCR 21st, OCR Gate, Edex	4 mins
	3	2	5	Show how roots grow downwards to gather nutrients and water.	OCR Gate, Edex	1 mins
	4	4	8	Show how roots of the Strangler Fig steal nutrients from their host tree, slowly killing it off.	OCR Gate, Edex	3 mins
	3	2	18	Shows how rings in the trunk of a tree reveal its age and growth pattern.	OCR 21st, OCR Gate, Edex	5.5 mins
HABITATS						
Grassland	4	4	12	Fire on Australian Grassland and subsequent regeneration.	OCR Gate	3 mins
	4	4	13	African Savannah with grass, acacias and grazers.	OCR Gate	6.5 mins
Woodland	4	4	1-3	British woodland featuring the succession of species, spring flowering, and the food web within the iconic oak tree.	OCR Gate	9 mins
	4	4	4	North American woodland flowering in spring.	OCR Gate	2 mins
Rain Forest	4	4	5-8	Shows how typical rainforest plants such as orchids, climbers and epiphytes have adapted to living high in the forest canopy.	OCR Gate	9.5 mins
Desert	4	6	7	Shows how deserts burst into spectacular carpets of flowers as soon as it rains.	OCR Gate	3 mins
Mountain	4	6	2-3	Alpine plants in European Alps, New Zealand and Mt.Kenya and how they have adapted to extreme temperatures at high altitude.	OCR Gate	9 mins

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Arctic	4	6	1	Shows how flowering tundra plants are dwarf versions of their relatives.	OCR Gate	5.5 mins
Mangrove Swamp	4	6	10	Shows how mangrove plants have adapted to surviving in salt water.	OCR Gate	5 mins
LOCOMOTION						
Flight	1	2	3	Explains the mechanics of how Dragonflies fly, showing their amazing speed and manoeuvrability.		1.5 mins
	1	2	4-16	Wing design and flight mechanics of Bumblebees and Flies. Immaculate aerial control makes a male more attractive to females in hoverflies.		8 mins
	7	2	2-5	Bird flight including take-off, aerodynamics, streamlining, soaring and formation flying. Features Pigeon, Albatross, Mallard, Osprey, Pelican and Vulture.		11 mins
	7	2	8	Bird adaptations for flying including light-weight skeletons and feathers, featuring the Golden Eagle.		3 mins
	7	2	12-16	Features different ways of flying in birds from the steep hunting dive of the Peregrine Falcon to the hovering flight of Kestrels and Hummingbirds.		10 mins
	12	8	7-8	Evolution of flight in mammals, featuring Flying Squirrels and Bats.		12 mins
Climbing	12	8	2-3 & 5-6	Shows how Squirrels and Monkeys are adapted for climbing and jumping around in trees.		3 mins & 4.5 mins
	12	8	14	Features the amazing acrobatics of Gibbons which are perfectly adapted to life in the tree tops.		3 mins
Running	11	5	11	Shows the Cheetah using its incredible speed to capture its prey.		4 mins

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Swimming	8	5	20-21	How Auks, Puffins and Penguins have modified stumpy wings that act as paddles and allow them to swim effectively under water.		3.5 mins
	12	7	1-4	Adaptations of a variety of different mammals to help them swim.		13.5 mins
	8	5	11-12	Shows how Mergansers and Divers have feet set far back on their bodies to act as propellers in water.		3.5 mins
NUTRITION						
Animals	13	9	4	How Howler Monkeys distinguish between nutritious and poisonous leaves in the rainforest.	OCR Gate	3.5 mins
	7	3	7-9	How some birds manage to live on a diet of leaves, which are not very nutritious and hard to digest. Geese have to feed round the clock, Mousebirds lie in the sun digesting, and Hoatzins have two stomachs.	OCR Gate	3.5 mins
	10	3	1-2	How Sloths cope with a diet of leaves, which are not very nutritious, by saving energy and moving extremely slowly, whilst the Tapir has a strategy for dealing with poisonous leaves.	OCR Gate	7 mins
	5	1	11	Shows a Python swallowing and digesting a deer.	OCR Gate	4 mins
Plants	3	2	3-6	Explains how photosynthesis works, including transpiration via xylem and phloem, and stomata.	OCR 21st, OCR Gate, AQA A, Edex	10 mins
	3	2	17	Leaf fall in autumn and how plants recycle their nutrients.	OCR 21st, OCR Gate, AQA A, Edex	4 mins
	4	6	8	How plants living on Mt Roraima, where there is virtually no soil or nutrition, have to augment their diet by eating animals. Features Pitcher Plants and Sundew.	OCR 21st, OCR Gate, AQA A, Edex	6.5 mins

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PARASITES						
	4	5	11-13	Mistletoe, Dodder & Rafflesia plants living as parasites and feeding off their host plants.	OCR 21st, OCR Gate	15 mins
	1	2	8	Wasp parasitizing Cabbage White Butterfly caterpillars.	OCR 21st, OCR Gate	5 mins
	2	4	9-10	Deception by Blister Beetle larvae in order to parasitise Digger Bee nests.	OCR 21st, OCR Gate	7.5 mins
	2	4	10	Bot Fly life cycle which includes parasitising house flies and cows.	OCR 21st, OCR Gate	2.5 mins
PREDATION						
Birds	7	2	12-13	Features the Peregrine Falcon, fastest bird in the sky, hunting grouse, and the Barn Owl hunting voles with its sensitive hearing.	OCR Gate, Edex	3.5 mins
	8	4	10-16	Variety of birds using different strategies to hunt. Includes Fish Eagles hunting flamingoes, a Shrike impaling a lizard and Lammergeiers dropping bones to break them open.	OCR Gate, Edex	19 mins
Reptiles	5	3	15	Features ferocious Perentie Lizard hunting rabbits.	OCR Gate, Edex	3.5 mins
	6	4	2	Rattlesnake using ambush tactics, smell and heat detectors to hunt prey.	OCR Gate, Edex	6 mins
	5	3	8	Chameleons catching insects with projectile, sticky tongue.	OCR Gate, Edex	2.5 mins
Mammals	13	10	6	Chimpanzees working as a team to hunt Colobus monkeys.	OCR Gate, Edex	4.5 mins
	11	5	6-10	Various carnivores using co-operative hunting techniques to bring down their prey, includes Hyaenas, Wild dogs, Wolves and Lions.	OCR Gate, Edex	24 mins
	11	5	11	Shows stalking technique used by big cats such as Cheetahs when hunting.	OCR Gate, Edex	4 mins
Invertebrates	1	1	6-8	Features some of the most vicious invertebrate hunters: the Velvet Worm catching its prey by shooting strings of glue and the Giant Centipede hunting bats in caves.	OCR Gate, Edex	7 mins



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	1	3	1	Dramatic spectacle of Glow worms catching Mayflies in a New Zealand cave.	OCR Gate, Edex	5 mins
	1	3	10	Bolas Spider using droplet of pheromone as bait to lure moths.	OCR Gate, Edex	3 mins
	2	4	6-7	Features White Crab Spiders and Assassin Bugs using pheromones to lure their prey into their claws.	OCR Gate, Edex	4 mins
Defence against predators	10	3	7	The different strategies employed by Zebras, Wildebeest and Gazelles on the African plains to detect danger.	AQA A	7.5 mins
	10	2	5	Elephant Shrew using runways to escape predators.	AQA A	4.5 mins
	12	8	1	Meerkats using sentries to look out for predators.	AQA A	2 mins
	3	2	9-14	Shows plant strategies to prevent being eaten. Includes the Acacia's thorny spines, stinging mechanism of the Nettle, camouflage of the Pebble Plant, and the Bracken's poisonous leaves.	AQA A	9.5 mins
REPRODUCTION (ANIMALS)						
Courtship	1	1	11	The bizarre head-butting courtship dance of tiny Springtails.	Edex	1.5 mins
	1	1	15	The Mojave Sand Scorpion's dangerous courtship ritual.	Edex	5.5 mins
	9	7	4-5	Elegant courtship dances and nuptial gifts of birds such as Grebes and Albatrosses.	Edex	6.5 mins
Sexual competition	10	3	8-10	Dramatic rutting displays in Bison, Big Horned Sheep and other ungulates.	OCR Gate, AQA A, Edex	9.5 mins

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	12	7	7-8	Hooded Seals inflating big red nasal sac to fend off rivals and Harbour Seals singing to impress females.	OCR Gate, AQA A, Edex	3 mins
	9	7	11	Capercaillie Grouse in Scottish highlands fighting for mates.	OCR Gate, AQA A, Edex	2.5 mins
	9	7	12	Bizarre Calfbirds with their haunting mooring calls competing for mates in a rainforest.	OCR Gate, AQA A, Edex	6 mins
Sexual Selection	9	7	2	Male Frigate Birds inflate red throat pouch to impress females.		2.5 mins
	9	7	7-8	Birds which impress females with their artistic abilities, features the Weaver Birds' intricate nest-building and the Bower Birds' colourful ornament collections.		4.5 mins
	9	7	9	Shows the extreme bird plumage ornaments which have evolved as a result of female selection, including the Peacock's tail.		3 mins
Monogamy	9	7	18	Long-term partnerships in Mute Swans are reinforced by courtship displays.	Edex	1.5 mins
Polygyny	9	7	10	Buff-breasted Sandpipers display on the arctic tundra to attract as many females as they can.	Edex	3 mins
Polyandry	9	7	16	Female Dunnock trying to mate with two males to ensure extra help with her chicks.	Edex	4 mins
Herma-phrodites	1	1	9	Features the unusual mating behaviour of Leopard Slugs which have both male and female organs.		4.5 mins
Brood parasitism	9	9	10	Dramatic behaviour of newly hatched, blind Cuckoo chick pushing warbler chicks out of nest.		3 mins
	9	8	23-27	Birds laying their eggs into others' nests to avoid incubation and rearing their young, includes Cuckoos, Ducks and Cowbirds.		11.5 mins

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Parental care	2	5	2	Shows how Paper Wasps build colonial nests and share parental duties which enables them to raise more young.	Edex	3 mins
	5	2	11-13	Unusual parental care shown by some frogs, including male Bull Frogs, Mimic Poison Dart Frog and the Marsupial Frog.	Edex	9 mins
	9	9	1-3	Birds feeding their helpless chicks with tireless dedication, including Pelicans and Dippers.	Edex	3.5 mins
	9	9	18-19	Shows how co-operation between adults increases the chances of raising their young successfully in Australian Choughs and Arabian Babblers.	Edex	7 mins
	11	4	9-10	Breeding and parental care in Mice and Patagonian Mara.	Edex	6 mins
Invertebrates	1	3	13	Courtship, mating, egg laying and parental care in Wolf Spiders.		8 mins
	1	2	8	Life cycle the Cabbage White butterfly.		5 mins
	1	5	2-3	Colonial breeding strategies of Paper wasps and Bumble bees.		9 mins
Amphibians	5	2	2	Courtship, mating and egg laying of the Alpine newt.		3 mins
Reptiles	5	1	7-8	Shows how incubation temperature of eggs will determine the sex of the young in most reptiles, featuring Leopard Geckos and Gharial Crocodiles.		4.5 mins
	5	3	11	Unusual breeding strategy of Australian Sleepy Lizard, which gives birth to live young.		5 mins
Birds	9	8	14-16	Shows the production and laying of a bird's egg. Explains why the Kiwi only lays one large egg, whilst Blue Tits lay many small ones.		3.5 mins

Keywords	Disc	Episode	Chapter	Description	Scheme of Work	Length
	9	8	1-4	Explains how birds have to lay eggs to keep their weight down for flying and shows various nesting sites.		7 mins
	9	8	21-22	Incubation strategies of birds. Features the Maleo fowl incubating its eggs in warm volcanic sand and the Snowy Owl which has a brood patch under its down.		3 mins
Mammals	10	1	16	Features the birth of a wildebeest and how it was dependent on its mother's placenta whilst inside her womb.		2.5 mins

REPRODUCTION (PLANTS)

Fertilisation	3	3	2	Illustrates the male and female reproductive parts of a plant and how fertilization is achieved.		2 mins
Wind	3	3	1	Plants that are wind-pollinated such as Giant Nepalese Grass.	OCR Gate	3.5 mins
Insects	3	3	8-11	Plants that depend on insects as pollinators and reward them with pollen or nectar.	OCR Gate	7.5 mins
	3	3	16-17	Plants that trick insects with sex pheromones or mimicry, but don't offer them any rewards.	OCR Gate	7 mins
	3	3	18-19	Features Dead Horse Arum, which mimics the scent of decomposing flesh to attract flies, and Titum Arum, the largest flower in the world.	OCR Gate	7 mins
Birds	3	3	3-4	Plants that produce colourful flowers to attract birds as pollinators.		5 mins
Mammals	3	3	5-7	Features plants that depend on mammals and geckos as pollinators.		5.5 mins

SENSES

Sight	8	4	4-6	Features birds using vision to hunt for food, including buzzard, kestrel and vultures.	OCR 21st, Edex	8 mins
	8	6	7-8	Colour vision and UV-vision in birds, which reveals that their plumages look very different to them than they do to us.	OCR 21st, Edex	3 mins

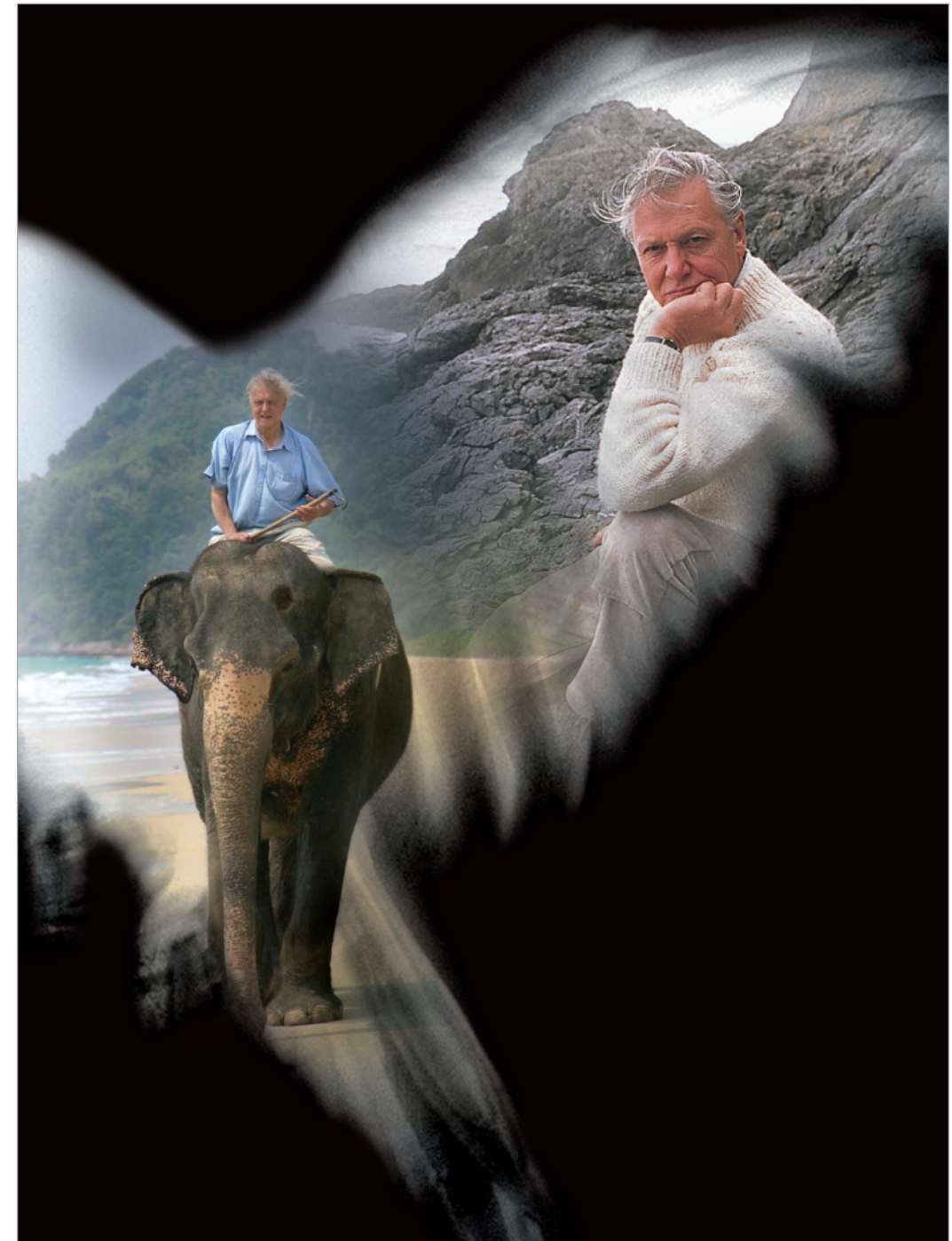


Keywords	Disc	Episode	Chapter	Description	Scheme of Work	Length
Hearing	8	14	3	Amazing hearing ability of Great Grey Owl which hunts Lemmings by detecting the slightest sound of movement under the snow.	OCR 21st, Edex	3.5 mins
	10	2	3	The blind Golden Mole using sound to hunt for termites in the desert sand.	OCR 21st, Edex	2 mins
	10	2	10	How Bats use echolocation to hunt their prey and the evolutionary arms race between hunter and hunted.	OCR 21st, Edex	6.5 mins
Smell	8	5	22-23	How albatrosses and petrels use their acute sense of smell to find food out in the open ocean.	OCR 21st, Edex	5.5 mins
	11	6	4	Wild Boar using scent to forage for tubers underground.	OCR 21st, Edex	2 mins
Touch	10	2	4	How the Star Nosed Mole uses its highly sensitive nose to detect prey by touch.	OCR 21st, Edex	1.5 mins
	11	6	1	Features a racoon identifying different objects on a riverbed by touch alone.	OCR 21st, Edex	3 mins

SYMBIOSIS

Plants & reptiles	5	1	3	Dependency of the Dead Horse arum plant on a lizard for its seed dispersal and dependency of the lizard on the plant for warmth and food.	OCR 21st, OCR Gate	4 mins
Plants & birds	7	3	10-12	Plants that depend on particular species of Sunbirds or Hummingbirds for pollination and reward them with nectar.	OCR 21st, OCR Gate	7 mins
	3	3	3	How flowers dependent on Hummingbirds for pollination ensure that only one kind of hummingbird can reach its nectar.	OCR 21st, OCR Gate	2 mins

Keywords	Disc	Episode	Chapter	Description	Scheme of Work	Length
Plants & mammals	3	1	10	Dependency of Acacia Trees on Elephants for seed dispersal and the dependency of the elephants on these trees for food.	OCR 21st, OCR Gate	3 mins
Plants & insects	2	4	2	How ants depend on the Duroia Tree for a nesting site and in return protect the tree from plant predators and competing plants.	OCR 21st, OCR Gate	4.5 mins
	2	4	1	How Ants protect Aphids from predation by ladybirds and in return get a meal of sugary nectar.	OCR 21st, OCR Gate	2 mins
	4	5	1-3	Symbiotic relationship between Algae and Corals, Giant Clams and Jelly Fish.	OCR 21st, OCR Gate	7.5 mins
THERMOREGULATION						
Amphibians	5	1	9	How amphibians deal with the problems of thermoregulation by waterproofing their skin.	OCR 21st, AQA A	2 mins
Reptiles	5	1	1-3	Shows how reptiles' lives are dominated by the challenges of thermoregulation. Thermal imagery of Marine Iguanas basking on lava rocks and Menorcan Lizard warming up on Arum flower.	OCR 21st, AQA A	12 mins
	5	1	14	Thermoregulation in dinosaurs such as Stegosaurus and Tyrannosaurus rex.	OCR 21st, AQA A	3 mins
	5	1	15	Thermal imagery reveals how Leatherback Turtles are the only reptile to maintain internal heat.	OCR 21st, AQA A	4 mins
Mammals	10	1	11	Red Kangaroos in the Australian desert keeping cool by licking their wrists.	OCR 21st, OCR Gate, AQA A	3.5 mins



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