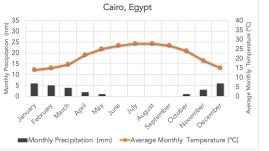
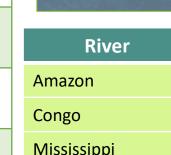
Rivers and Deserts Knowledge

Orgeneriser	a large natural stream of water flowing in a channel to the sea		
mouth	A river mouth is where a river flows into a larger body of water, such as a bay or gulf, a sea, or an ocean.		
source	source of a river or stream is the original point from which the river flows. It may be a lake, a marsh, a spring or a glacier		
desert	an area of land that receives no more than 25cm of precipitation a year (hot or cold)		
flora	the plants of a particular region, habitat, or geological period		
fauna	the animals of a particular region, habitat, or geological period		
adaptation	the process of change by which an organism or species becomes better suited to its environment.		





Nile crocodile



Nile lotus

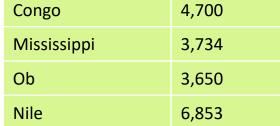
ATLANTIC OCEAN

MOROCCO

208

2000

NIGERIA





MOUNTAINS

RIVER

SAHARA DESER

SERENGETI

EGYI

ETHIOPIA

00

GREAT RIFT VALLEY

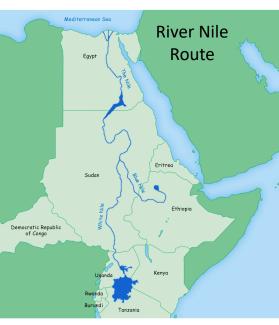
MOUNT KILIMANJARO

SOUTH AFRICA

Length (km)

6,437

Fields by the NUL



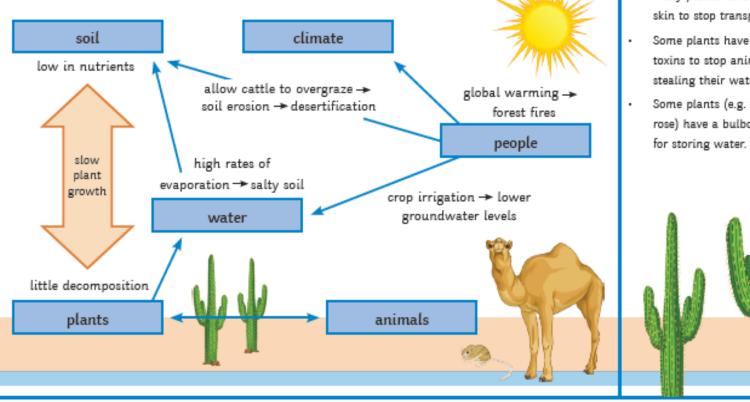


Temperature and rainfall

The Physical Characteristics of a Hot Desert

Climate	Water	Soils	Plants	Animals
 Very hot during the day (e.g. 45°C). Cold at night (e.g. 5°C). 	 Very little rainfall (less than 250mm a year). Rain is infrequent. 	 shallow lacks nutrients (due to lack of humus) dry 	 sparse low bushes cacti Many hot desert plants only appear after the rain. 	 lizards, snakes, scorpions and insects Small, nocturnal mammals, e.g. meerkat.

The Interdependence of Climate, Water, Soils, Plants, Animals and People



Plant Adaptations

- Plants have either shallow. wide roots to catch as much water as possible when it rains or long roots to tap into deep underground water.
- Small leaves reduce the amount of water lost through transpiration.
- Succulents (e.g. cacti) have large, fleshy stems for storing water.
- Many plants have thick, waxy skin to stop transpiration.
- Some plants have spines and toxins to stop animals from stealing their water.
 - Some plants (e.g. the desert rose) have a bulbous trunk

Animal Adaptations

- Some animals have large fat stores (e.g. a camel's hump allows it to go for days without food and water).
- . Many desert animals are nocturnal, coming out to hunt at night when it is cooler (e.g. fennec foxes).
- Some animals (e.g. the desert tortoise in the south western United States) spend much of their time underground.
- Some animals have large ears (e.g. fennec foxes) or long limbs to allow more heat loss.
- The jerboa, a small rodent, doesn't have to drink water. It is able to extract enough water from its foods to survive.
- Most desert birds are normadic. They . can travel long distances in search of food and water.
- The horned viper is a sidewinder . species of snake. Its special movement helps it to move over the sands quickly and effectively.
- Lizards and snakes can tolerate high body temperatures (e.g. desert iguanas).
- Most desert animals minimize water loss from sweat and urine.
- Some animals are camouflaged to protect against predators (e.g. kangaroo rat).