









Temperate



Mediterranean







Tropical Mountain Polar Desert The oldest map of the African continent Created in China in 1389

Tundra



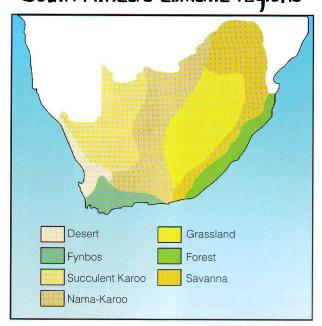


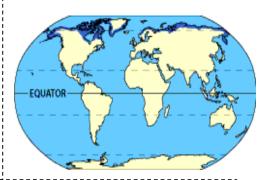
Coastal climates





South Africa's climatic regions





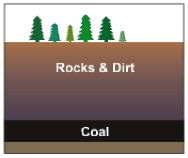
HOW COAL WAS FORMED



Before the dinosaurs, many giant plants died in swamps.

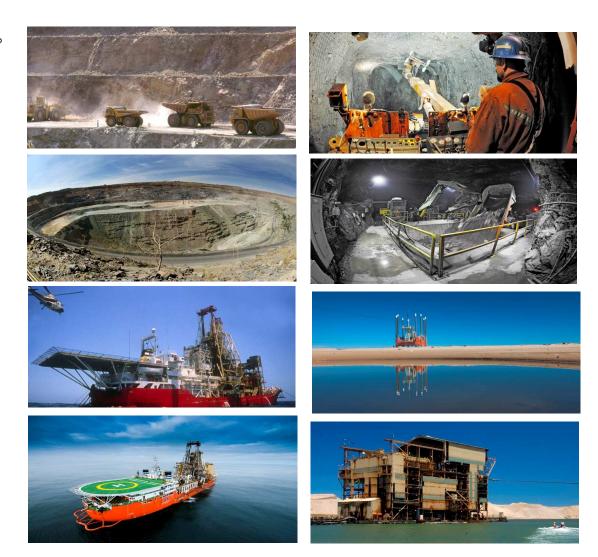


Over millions of years, the plants were buried under water and dirt.



Heat and pressure turned the dead plants into coal.







Romans fight the **Second Punic War for** Spain's gold in 215BC



Great Britain moves to a pure gold standard in 1717



The Venice Mint makes gold ducats in 1422



South African Gold **Rush 1885**





Egyptians developed

gold smelting around

3600BC



Tutankhamun's funeral mask made from gold around 1223BC



The Burgerspond, struck at Heaton's Mint, England in 1874, for South Africa



Californian Gold Rush 1848



Roman Emperor Trajan conquers Dacia for its gold in 100AD



The Phoenicians trade with Spain for gold in 700BC



Australian Gold Rush 1846



Gold mine opened at **Eersteling near** Mokopane in 1871



The Portuguese callWest Africa the "Gold Coast" by 1471AD



Private ownership of gold (apart from jewelry and coins) banned 1933-1975



Kimberley's big hole











The first diamond found in South

Africa

What is the Reserve Bank?



The only organization in the country that is allowed to mint coins and print banknotes. It holds the country's reserve stocks of gold.



A river erodes the outside of a meander and deposits sediment on the inside, making a

The loop grows longer and narrower until the river finally breaks through.

Compass needle

Orienting lines

Orienting arrow

Direction of travel-arrow Turnable Compass Housing

Eventually the loop gets cut off completely and forms a lake called an oxbow lake.

The river flows past the ends of the loop and they slowly become silted up.

V-shaped valley | Upper stage

Flood plain | Middle stage

Meander Lower stage

Location

Marine locations have mild climates with little temperature variation, while interior location s have much more extreme climates

Prevailing winds and ocean currents These bring warm and cold temperatures to land areas. They also bring moisture or take it away.

Latitude

The distance north or south of the Equator.

The more latitude increases, the more the annual average temperature decreases

Landforms

Landforms like mountains that winds encounter, cause winds to rise, cool down and precipitate. Rain shadows form when air descends away from the wind, warming and absorbing available moisture.

Elevation

Air at higher elevations (at the same latitude) is cooler and holds less moisture than air at lower elevations.

Factors that influence climate

Uses of coal For fuel In industry At home

Warm Agulhas Current
Cold Benguela Current

Mapping word mix& match

Diseases after monsoon season Crops in monsoon areas	

Physical features	things in the natural environment, such as rivers and mountains
Mountain peak	where the land and the sea meat
Coastal plain	low-lying land that is near to the sea
Escarpment	high, flat inland parts of a country
Cape	a steep slope between a plateau and a lower area
Bay	a dent or curve in the coastline
Coast	a piece of high land that goes into the sea
Plateau	the highest point at the top of a mountain



Call the Cape doctor!



Why can dust \$torms be bad?

For the environment

For people

What is a squall?

What does the word Typhoon mean in Chinese?

Warm ocean water making humid air & clouds Abundant low-level moisture to help develop a thunderstorm

Winds coming together to force air upward

Trigger (cold front or converging winds) to lift moist air

Humid air to form storm clouds

Light winds outside to steer it and let it grow when

Unstable atmosphere (temperature decreases rapidly with height, or when air overlays moist air near Earth's surface)

Strong atmospheric level winds, turning with height in a clockwise or veering direction

Climate

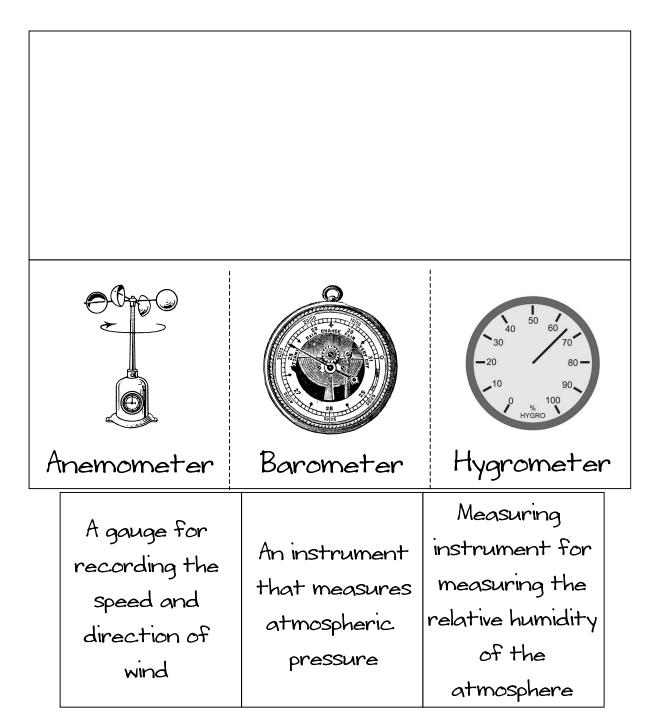
Maritime Climate

Continental climate

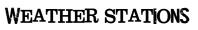
Humid

ANNUAL RAINFALL

EVAPORATION

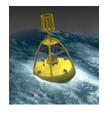








WEATHER BALLOONS



OCEAN BUOYS

WEATHER SATELLITES



SEDIN

SEDIMENT ANALYSIS





TREE RINGS

Strong South African Winds

Unpleasantly Strohot, dry wind wesin some in some coastal areas

Strong southwesterly wind in KwaZulu-

Natal

Temperature	how hot or cold something is
Cloud cover	the amount of clouds covering the sky
Rainfall	the amount of rain that falls over an area
Wind Speed	how fast or strong the wind is blowing
Solar radiation	the heat of the sun
Precipitation	different forms in which water falls to the ground
Atmosphere	the layer of gas that surrounds the Earth
Weathering	the breaking down of the rocks that make up Earth's surface by weather and actions of plants and animals
ttumidity	the amount of water vapour in the air

Hot stickiness caused by too much water in the air

A milder and wetter climate that places near the sea have

The average weather conditions for an area over a long period of time

3			
Tributary	Catchm	rent greg	
Source	River	system	
	Permeable		Groundwater

Rivers Vocabulary		
	The water that had been soaked into the ground and absorbed into a layer of permeable rock	The start of a river or stream
Mouth	A stream or river that flows into a bigger river	Where a river flows into the sea
What are Placer deposits?	The area drained by a river and its tributaries	Water can soak through
		All the rivers and streams in a catchment area
How do people mine for placer gold?	The climates of inland areas	Cecil Rhodes, founder of De Beers Consolidated Mines in 1888. De Beers is the world's leading diamond company.

Non- renewable	Ore	Fuel	Industry
Open-pit mine	Shaft	Ventilation	Lift
	Something that	A rock that contains large amounts of a certain mineral	Lift Something we burn to give us energy

Roof supports	Impact	Pollution	Silicosis
Mine dumps	Tunnels	Ventilation	Chemicals
A lifting machine that transports miners and rocks in a mine shaft	Lengths of wood or metal that stop the tunnel roofs falling down	A powerful effect or damage	Causing damage to air, water, soil with dirt and/or chemicals

Highveld			
Great Karoo	Olifants	Cape Point	Asbesberge
uKhahlamba- Drakensberg	Gariep-0range	Tugela	Algoa Bay
Limpopo	Namaqualand	Soutpansberg	Lowveld
Mzimkulu	Vaal	Little Karoo	Waterberg