TEACHERS WITHOUT BORDERS PROGRAMME

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In Bill Gates words, at the Mandela Day 'Living Together' address: "Maintaining the quality of this country's higher education system while expanding access to more students will not be easy. But it's critical to South Africa's future" – working together, we can help achieve this."

Contributing schools to date:

Clifton School	Milnerton High	Rustenburg Girls' High	St Peter's
Durban Girls'	Northwood High	St Anne's DC	St Stithians
Fairmont High	Roedean	St John's DSG	Wynberg Boys' High
Herzlia High	Rondebosch Boys'	St Mary's DSG Kloof	Wynberg Secondary

Grade 8 June 2013

Time: 1.5 hours GEOGRAPHY MEMO Marks: 120

Section A: Climate [90]

Question 1: Multiple choice

- 1.1 A ✓
- 1.2 A ✓
- 1.3 D ✓
- 1.4 B ✓
- 1.5 A ✓
- 1.6 D ✓
- 1.7 B ✓
- 1.8 A ✓
- 1.9 B ✓
- 1.10 A ✓ [10x1=10]

Question 2:

- 2.1 Insolation $\checkmark\checkmark$
- 2.2 Terrestrial radiation ✓ ✓ 1x2=2
- 2.3 Nitrogen ✓ plant growth ✓
 - Oxygen ✓ respiration ✓ 2x2=4
- 2.4 Water vapour ✓ evaporation / transpiration ✓

Carbon dioxide ✓ deforestation / industry / increase in population / burning of fossil fuels ✓ 2x2=4

[12]

Question 3:

- 3.1.1 wind speed ✓
- 3.1.2 wet and dry bulb thermometer / hygrometer ✓
- 3.1.3 air pressure ✓
- 3.1.4 hectopascals / hPa ✓
- 3.1.5 rain gauge ✓
- 3.1.6 hours ✓ 6x1=6

3.2	Weather refers to the atmospheric conditions \checkmark at a particular place \checkmark and at a particular time \checkmark		
	These conditions change daily, even hourly ✓	4x1=4	
3.3	Any three of:		
•	Satellites ✓		
•	Ships at sea ✓		
•	Weather ballons ✓		
•	Weather stations	3x1=3	
3.4.1	B = cirrocumulus ✓		
	D = altocumulus ✓		
	G = stratus ✓		
	H = cumulus ✓		
	J = nimbostratus ✓	5x1=5	
3.4.2	Convectional ✓ ✓	1x2=2	
3.4.3	Any one of:		
•	Cirrus ✓✓		
•	Cirrostratus		
•	Altostratus	1x2=2	
		[22]	
Ques	tion 4:		
4.1	Carbon Dioxide ✓	1x1=1	
4.2	CFC's ✓	1x1=1	
4.3	100 years ✓	1x1=1	
4.4.1	Fertiliser / Vehicle exhausts ✓		
4.4.2	decaying vegetation / dung / cows / rice paddies ✓	2x1=2	
4.5	water vapour ✓	1x1=1	
4.6	Global warming is the increase ✓ in the average temperatures ✓ of the Earth's atmosphere	ere √ 3x1=3	
4.7.	Any two:		
•	• Sea levels rising ✓ ✓		
•	Coastal areas flood ✓✓		
•	Ice caps melting		

•	Changing	weather	natterns
•	CHAILBILLE	weather	patterns

Increase in TCs	2.2-4
• increase in its	2x2=4

Question 5:

1x1=1

[13]

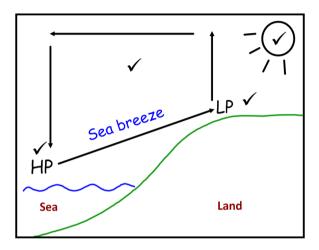
5.1 June ✓

5.2 Durban ✓ 1x1=1

5.3 Port Nolloth – Cold ✓ Benguela current ✓ - colder

Durban – Warm ✓ Mozambique current ✓ - warmer 2+2=4

5.4 Sea breeze 4x1=4



5.5 Frontal rain ✓

- Cold air moves toward warm air ✓
- Cold air forces / wedges under warm air ✓
- Warm air forced to rise ✓
- Cools, condenses, forms clouds and rains √

1+4=5 **[15]**

Question 6:

- 6.1 South Indian \checkmark HP \checkmark 1x2=2
- 6.2 anticlockwise ✓ outwards ✓ descending ✓ 3x1=3
- 6.3 Cold front $\checkmark\checkmark$
- 6.4 summer ✓

Any 2 reasons:

- Pressure cells shifted south ✓✓
- Cold front South of CT ✓✓
- LP over interior

1+(2+2)=5

6.5 Bloemfontein is inland ✓ Port Nolloth is near the sea ✓ Port Nolloth's temperatures are moderated by the sea ✓ ✓ 2+2=4

6.6 Convectional ✓✓ 1x2=2

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Quest	<u>ion 7:</u>		
7.1	a transport system is a network ✓ of transport routes ✓ that link ✓ different places ✓	4	
7.2	D ✓ only 1 transport route is linked at this point ✓	1x1=1	
7.3	Affordability is the ability ✓ and willingness ✓ of a person to pay for goods and services ✓	3x1=3	
7.4	accessibility ✓ density ✓	2x1=2	
7.5	Settlement X \checkmark More roads in the same size area (length of roads is greater than in Y as is the same in both blocks) \checkmark \checkmark	nd the are 1+2=3	:a
		[14]	
<u>Questi</u>	on 8:		
8.1	department of trade and industry ✓ ✓	1x2=2	
8.2	trade is the action ✓ of buying ✓ and selling ✓ goods ✓ and services ✓	2x2=4	
8.3	goods that are sold ✓ by one country to another country ✓	1x2=2	
8.4	Either:		
•	Air ✓ small product so not too expensive ✓		
•	Boat ✓ not perishable so doesn't matter how long it takes ✓	2x2=4	
8.5	Globalisation = the exchange of capital (money) \checkmark information, people, ideas \checkmark goods and servithe world. \checkmark	4x1=4	nd 16]

Section B: Transport

TOTAL 120

[30]