## TEACHERS WITHOUT BORDERS PROGRAMME

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basic education Department: Basic Education REPUBLIC OF SOUTH AFRICA

With grateful thanks to our associate partners, The <u>National Department of Basic Education</u>, The <u>Independent</u> <u>Examinations Board</u>, <u>Siyavula Education</u>, <u>Smarticks</u>, <u>Noteshare</u>, <u>Lemonlicious</u>, <u>datacentrix</u>, and most of all, to the schools and teachers from both the public and private education sectors who as founder contributors, have lent content to the <u>Teachers without Borders programme</u>, for the benefit of all South Africa's learners.

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	

- The sun heats the earth's surface in the form of short wave radiation called insolation. The earth 4.1. then heats the atmosphere in the form of long wave radiation called terrestrial radiation. (6x1=6)
- 1140m 40m = 1100, 1100/100=11, 11 x 0.65°C = 7.15 °C, 20 7.15 °C = 12.85 °C 4.2. (4)

(10)

## **GEOGRAPHY TEST MEMO**

State whether the following statements are TRUE or FALSE. Only write down the question number

## **TIME: 45 MINUTES**

and the answer

1.1.	F	(1)		
1.2.	F	(1)		
1.3.	Т	(1)		
1.4.	Т	(1)		
1.5.	F	(1)		
		(5)		
2.	Latitude or distance from equator			
	Mountains or relief			
	Ocean currents			
	Altitude			
	Distance from the sea	(1x5=5)		
3.	Water is transparent so rays penetrate deeper (bigger area to heat) while only the top surface of land warms up.			
	Water moves & distributes heat (waves and currents)			
	Evaporation from water surface (uses energy) so cools the water down			
	Water reflects much of the sun's energy (albedo)			
	Land masses only need $\frac{1}{2}$ as much eat to raise the temperature by 1°C as the same mass	of water.		
	ANY 3	(3x2 = 6)		

1.

August 2016

**50 MARKS** 

5.1. Table 1 = Bloemfontein Table 2 = Durban? (1)

5.2.	There is a smaller difference in the max and minimum temperatures of Durban as it is at the coa (Durban has a smaller temperature range). Vice versa for Bloemfontein because it is far from th			
	coast	(Any of the two)	(2)	
5.3.	25 °C (24.9 °C)			
5.4.	September, 20 °C		(1+2=3)	
5.5.	Nov, 6 °C		(1+2=3)	
5.6.	Mozambican (		(1)	
5.7.	South, warm (1+1		(1+1=2)	
5.8.	A high rainfall or increases rainfall (2x1=		(2x1=2)	
5.9.	Summer		(1)	
			(17)	
6.	1.	Warm moist air		
	2.	air rises and cools down.		
	3.	Windward side		
	4.	Clouds form		
	5.	Leeward side or rain shadow		
	6.	Rain shadow (dry conditions) or leeward side		
	7.	Orographic rainfall or relief rainfall	(7x1=7)	