TEACHERS WITHOUT BORDERS PROGRAMME

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With grateful thanks to our associate partners, The <u>National Department of Basic Education</u>, The <u>Independent 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

NAME:	Class:
NAME:	Class:

Geography G8

June 2019

Time: 1 ½ Hours Total:

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

- 1. This paper consists of 6 pages. And a 2 page colour insert.
- 2. Answer all questions on the paper
- 3. It is in your best interest to write neatly and legibly
- 4. Diagrams should be drawn in pencil

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QUESTION ONE: MAPWORK

REFER TO THE MAP ON THE COLOUR INSERT PAGE

1.1	Provide the direction from Welcome Party (A4) to the Airport (B3) (1					
1.2	Calculate the direct distance from Welcome party A4 (dot), to Arrowtov (dot). Use the Linear scale and give your answer in Km.	wn A6 (1				
1.3	Calculate the road distance from the middle of the bridge over the rive eastwards through Queenstown to the middle of the bridge in A2. Us scale, and give your answer in Km. (show your working).	se the ratio				
	Working: (Formula Cm on map x map scale) / 100 000					
1.4	Provide the co-ordinates of the dot at Recovery Party in A4	'E (2				
1.5	Name the feature found at 7° 50'S 25° 56'E .	(1				
1.6	Multiple choice: Write only the letter the most correct option in the spa	ice provided				
1.6.1	Lines of Longitude i) are measured as an angular distance North and South of the equato ii) are called Parallels iii) are used to calculate differences in time on earth iv) are of equal length	r				
	The most correct statements are a) i & iv b) ii& iii c) i & iii d) iii & iv Answer:	(1				
1.6.2	The International date line a) is a straight line of Longitude b) is found on the 0° E line of longitude c) when it is at midnight the whole earth is on the same day. d) None of the above statements are correct. Answer	:(1				
1.6.3	a) never meet each otherb) are all the same lengthc) divide the earth into the Eastern and Western Hemispheres	(1				

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QUESTION TWO: TIME

N.B. The earth makes one complete rotation of 360° in 24 Hours and as a result will move 15° in 1 hour and 1° in 4 minutes.

The earth rotates from west to east.

2.1	If you are in South Africa at 30°E at 8 am and you phone someone in England at	0°.
	Would the time in England be earlier or later than 8 am?	(1

- 2.2 The time in South Africa 30°E is 10 am. Calculate the time in Madagascar 45°E.
- 2.3 Calculate the time in Walvis Bay in Namibia 14°E, if the time in Durban 30°E is 6am
- 2.4 Refer to the cartoon below







In which direction (e-w or w-e) would the penguins need to travel across the IDL to go back a day?

QUESTION THREE: SEASONS

3.1 Mix and match: Match the word in column A with the statement in column B.

	COLUMN A	COLUMN B	ANSWER
3.1.1	21 June	Hours of daylight on the south pole on the 21 June	
3.1.2	661/20	Latitude of the tropic of Capricorn and Cancer	
3.1.3	231/20	Autumn Equinox in the Southern hemisphere	
3.1.4	21 March	Winter solstice in the Southern hemisphere	
3.1.5	0	Angle of the earth's axis to the horizontal plane	

3.2 Refer to the diagram of the earth on the Colour insert page and answer the questions that follow.

- 3.2.1 a) Which season is the Southern hemisphere experiencing at A? _____(1
 - b) On which date will the situation at A on the diagram occur? _____(2
- 3.2.3 True or False. Write only the word True (if you think the statement is correct) or False (if you think the statement is incorrect) in the space provided.

IN THE SOUTHERN HEMISPHERE

a) Between A and B the days will be are longer than the nights.

4

(5

etween B and C the days are becoming shorter and are less than 12 hours long(1 I FOUR: FACTORS THAT INFLUENCE TEMPERATURE AND RAINFALL v a labelled diagram to show how latitude (distance from the equator) affects berature on earth. (2
v a labelled diagram to show how latitude (distance from the equator) affects
·
er to the two Climate graphs, and the map of South Africa on page ii of the ur insert.
etermine the highest rainfall for Durban (1
ccount for (explain why) the difference in rainfall between Durban and Port olloth.
(2
alculate the temperature range (Lowest to highest) for :Durban (1 Bloemfontein (1
ccount for (explain why) the difference in temperature range between Durban and Bloemfontein.
֓֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜

		(2	9
Choo Tl	STION FIVE: CLIMATE AROUND THE WORLD use a word from the box below to correctly complete the sentences below thermometer Hygrometer Cup anemometer Barometer ectopascals Millimetres Millilitres Isobars Percentage recipitation m/sec		
5.1	a) A is used to measure atmospheric pressure.	_ (1	
	b) Atmospheric pressure is measured in	(1	
	c) Humidity is measured with a	(1	
	d) The unit of measurement used by a cup-anemometer is	(1	
5.2	Describe how snow is formed.		
		(3	
QUE	STION SIX: SETTLEMENT		L
6.1	Name the 2 economic activities that take place in rural settlements.	(2	
6.2	a) What do the letters CBD stand for?	_ (1	
	b) Describe two characteristics of the CBD.	(2	
			•
6.3	Name the area around the CBD which is undergoing constant change.	_ (1	6
QUE	STION SEVEN: ASTRONOMY		
MUL	TIPLE CHOICE: Write the letter of the most correct option in the space provided	(4	
7.1.1	A lunar eclipse occurs when a) the shadow of the earth falls on the moon b) the shadow of the moon falls on the sun c) the shadow of the earth falls on the sun d) the shadow of the moon falls on the earth	-	
7.1.2	An solar eclipse occurs at: a) new moon b) first quarter c) third quarter d) Full moon	_	

7.1.3	A spring high tide o i) Full moon phase iv) new moon ph a) iii & iv	ii) first quarter phas	e iii) third qua	rter phase d) i & iV	_
7.1.4	The force that is responsible for the same tide occurring on opposite sides of The earth is called? a) centrifugal force b) tidal force c) centripetal force d) magnetic force				
7.2 T	RUE OR FALSE: W	rite the word True or	False in the space	provided	(5
7.2.1	1 We do not experience an eclipse of the moon every lunar month because the moons plane of revolution around the earth is tilted at 66.5° to the earth's revolution around the sun.				
7.2.2	We experience two	neap and two spring	g tides every lunar n	nonth.	_
7.2.3	The sun's gravitation	nal pull is less than t	that of the moon.		_
7.2.4	Solar eclipses cove	r a smaller area thar	n lunar eclipses.		_
7.2.5	the area covered by	the Partial shadow	of a solar eclipse is	called the footprint	t.
7.3	-	ed diagram of a Sprin ational pull of moon 8	•		