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:	<u>MEMO</u>	Class:
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Geography G8

June 2019

Time: 1 ½ Hours

Examiner: Edmonds Moderator: Bailey

Total:

60

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

QUESTION ONE: MAPWORK

REFER TO THE MAP ON THE COLOUR INSERT PAGE

culate the direct distance from Welcome party A4 (dot), to Arrowtown A6 dot). Use the Linear scale and give your answer in Km3.25 Km(1 culate the road distance from the middle of the bridge over the river in B4 astwards through Queenstown to the middle of the bridge in A2. Use the ratio cale, and give your answer in Km. (show your working)17.9 km (2 Working: (Formula Cm on map x map scale) / 100 000		
astwards through Queenstown to the middle of the bridge in A2. Use the ratio cale, and give your answer in Km. (show your working)17.9 km (2 Working: (Formula Cm on map x map scale) / 100 000		
ovide the co-ordinates of the dot at Recovery Party in A4		
Name the feature found at 7° 50'S 25° 56'E . airport (1		
tiple choice: Write only the letter the most correct option in the space provided		
Lines of Longitude i) are measured as an angular distance North and South of the equator ii) are called Parallels iii) are used to calculate differences in time on earth iv) are of equal length		
most correct statements are & iv b) ii& iii c) i & iii d) iii & iv Answer: _d (1		
International date line is a straight line of Longitude is found on the 0° E line of longitude when it is at midnight the whole earth is on the same day. Illine of the above statements are correct. Answer: _c (1		
es of Latitude ever meet each other re all the same length ivide the earth into the Eastern and Western Hemispheres Ill the above statements are correct Answer:a(1		
tii see		

10

| 4

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? ___earlier____ (1
- 2.2 The time in South Africa 30°E is 10 am. Calculate the time in Madagascar 45°E.
 ___11 am______(1
- 2.3 Calculate the time in Walvis Bay in Namibia 14°E, if the time in Durban 30°E is 6am 4:56 am (1
- 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?

__w-e____(1

QUESTION THREE: SEASONS

3.1 Mix and match: Match the word in column A with the statement in column B. (5

	COLUMN A	COLUMN B	ANSWER
3.1.1	21 June	Hours of daylight on the south pole on the 21 June	0
3.1.2	661/20	Latitude of the tropic of Capricorn and Cancer	23.5
3.1.3	23½0	Autumn Equinox in the Southern hemisphere	21 mar
3.1.4	21 March	Winter solstice in the Southern hemisphere	21 jun
3.1.5	0	Angle of the earth's axis to the horizontal plane	66.5

- 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? __summer___ (1
 - b) On which date will the situation at **A** on the diagram occur? ___21 Dec _ (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. _____T___(1
- b) Between C and D the nights will be getting shorter but will be still longer than 12

	hoursT	_(1	
	c) Between B and C the days are becoming shorter and are less than 12 hours lo	ng _(1	
		-1	11
QUES	STION FOUR: FACTORS THAT INFLUENCE TEMPERATURE AND RAINFALL		
4.1	Draw a labelled diagram to show how latitude (distance from the equator) affects temperature on earth.	(2	
	atmosphere		
	long		
	sun's rays Earth		
	short distance		
	equator		
4.2	Refer to the two Climate graphs, and the map of South Africa on page ii of the colour insert.	he	
	a) Determine the highest rainfall for Durban77mm	(1	
	b) Account for (explain why) the difference in rainfall between Durban and Port Nolloth._Dbn warm agulhas current = more evap =more precip		
	_PN cold Benguela current = less evap = less precip	(2	
	c) Calculate the temperature range (Lowest to highest) for :Durban19°C Bloemfontein31°C	(1 (1	
	 d) Account for (explain why) the difference in temperature range between Durban and Bloemfontein. Bloem = continental climate land heats & cools rapidly 		
	DBN maritime climate = oceans moderate climate so less extreme fluctuations in temp (2		9
Choos Th He	STION FIVE: CLIMATE AROUND THE WORLD se a word from the box below to correctly complete the sentences below sermometer Hygrometer Cup anemometer Barometer ectopascals Millimetres Millilitres Isobars Percentage ecipitation m/sec		
5.1	a) A _barometer_ is used to measure atmospheric pressure. (1		
	b) Atmospheric pressure is measured in hectopascals (1		
	c) Humidity is measured with a _hygrometer (1		

	d) The unit of measurement used by a	cup-anemometer is _m/sec	(1	
5.2	Describe how snow is formed.	diagtion coore	(2	
	Wv rises. dpt is below freezing & crysta	disation occurs	(3	
QUES	STION SIX: SETTLEMENT			
6.1	Name the 2 economic activities that take	te place in rural settlements. Farming mining		(2
6.2	a) What do the letters CBD stand for? _	_central business district		(1
	b) Describe two characteristics of the C	BD.		(2
	tall buildings, high rental, central, conge	estion		
6.3	Name the area around the CBD which	is undergoing constant change. Transition zone	(1	
QUES	STION SEVEN: ASTRONOMY			
MULT	TIPLE CHOICE: Write the letter of the mo	ost correct option in the space pro	vided	(4
7.1.1	A lunar eclipse occurs when a) the shadow of the earth falls of b) the shadow of the moon falls of c) the shadow of the earth falls of d) the shadow of the moon falls	on the sun on the sun	_a	_
7.1.2	An solar eclipse occurs at: a) new moon b) first quarter c) third of	quarter d) Full moon	_a	_
7.1.3	A spring high tide occurs at: i) Full moon phase ii) first quarter phasiv) new moon phase	se iii) third quarter phase	_d	_
	a) iii & iv b) i & ii	c) ii & iii d) i & iV		
7.1.4	The force that is responsible for the sar The earth is called? a) centrifugal force b) tidal force c) ce		es of b_	
7.2 T	RUE OR FALSE: Write the word True o	r False in the space provided		(5
7.2.1	We do not experience an eclipse of the moons plane of revolution around the earound the sun.			ion
7.2.2	We experience two neap and two sprin	g tides every lunar montht		
722	The sun's gravitational null is less than	that of the moon	f	

7.2.4 Solar eclipses cover a smaller area than lunar eclipses.

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7.2.5 the area covered by the Partial shadow of a solar eclipse is called the footprint.



7.3 Draw a fully labelled diagram of a Spring tide (include the position of the sun moon & earth, the gravitational pull of moon & sun and the position if all the relevant tides.

