

Grade 9 Social Sciences Worksheet

Map skills

(Note: Schools should have this map available in hard copy, as it has been used in a previous CTA.)

Study the 1:50 000 map extract of Cape Town and answer the questions that follow.

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1. *Grid references*

- 1.1 What is the grid reference for Rhodes Memorial in Block E7? [4]
1.2 What feature is found at point 33° 58' 0" S; 18° 27' 00" E? [2]
1.3 Indicate whether the feature you have identified is a man-made or a natural feature. [2]

2. *Directions and bearing*

If you look carefully at Table Mountain, you will see a number of paths (hiking trails and tracks).

- 2.1 In which direction would you walk if you went from Rhodes Memorial (E7) to Kirstenbosch Dam in G5? [2]
2.2 On what bearing would you walk from Rhodes Memorial to Kirstenbosch Dam? [2]

3. *Altitude*

- 3.1 What is the height of Leeukop (Lions Head) in D3? [2]
(Hint: Contour lines are 20 m apart.)
3.2 What is the height difference between Signal Hill (B4), Trig Beacon 544 and Leeukop? [2]

4. *Distance*

- 4.1 Measure the distance along the M3 as it enters the map in block H7 to the intersection with the M63 in F6. Give your answer in km. [4]
4.2 How long would it take a car travelling at 60 km/hr to travel along the route you measured in Question 4.1? [6]

5. *Interpretation*

- 5.1 Name the ocean that is shown on the map. [2]
5.2 Locate the cableway in E4. Imagine that you are standing at the top of the mountain next to the upper station. Describe the view and the sights you would see if you looked in a NW direction. [6]

- 6.1 **Describe** the direction in which the taxi will be travelling. [4]
6.2 **Describe** the main features and landmarks that you will see along the way and out of which window (L or R) you will see them. [8]
6.3 **List all the suburbs** you will pass through (in the correct order) as you travel. [4]

Total: 50

Only pencil may be used on the map. Please erase all your pencil marks before **1**.

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Suggested Solutions

- 1.1 $33^{\circ} 57' 07''$ S $18^{\circ} 27' 35''$ E
- 1.2 Newlands Reservoir
- 1.3 Man-made
-
- 2.1 South West
- 2.2 180°
-
- 3.1 669 m
- 3.2 318 m
-
- 4.1 $10 \text{ cm} \div 2 = 5 \text{ km}$
- 4.2 $t = d/s = 5 \text{ km} / 60 \text{ km per hour} = 0.083 \text{ hours} \times 60 \text{ min per hour} = 4.9 \text{ min}$
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- 5.1 Atlantic
- 5.2 Straight ahead you would see Lion's Head (Leeukop); to the left you would see Camps Bay, the coast, Whale Rock, etc. Due north would be Signal Hill, with the Gardens in the foreground. You would not be able to see the coast behind Signal Hill and Leeukop. Any other correct detail.
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- 6.1 North West for a short distance, then South West.
- 6.2 You will pass Signal Hill and Lions Head on the right as you go.
- 6.3 Schostschekloof, Bokaap, Tamboerskloof on the right, gardens on the left, The Glen and Camps Bay on the right.