

TEACHERS WITHOUT BORDERS PROGRAMME

BROUGHT TO YOU BY



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

With grateful thanks to our associate partners, The [National Department of Basic Education](#), The [Independent Examinations Board](#), [Siyavula Education](#), [Smarticks](#), [Noteshare](#), [Lemonlicious](#), [datacentrix](#), 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 [Teachers without Borders programme](#), 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 |

Grade 8 NS test Memo

Feb 2017

1.1D ✓✓
1.2A ✓✓
1.3B ✓✓ (6) **[6]**

2.1 Chlorophyll ✓
2.2 Mitochondria ✓
2.3 Potential ✓
2.4 Endotherms ✓ (4) **[4]**

3.1. E ✓
3.2 C ✓
3.3 F ✓
3.4 A ✓
3.5 B ✓ (5) **[5]**

4.1 An interdependency ✓
(1)
4.2 The bird needs the food it receives from the crocodile's teeth ✓ and the crocodile's teeth need to be cleaned ✓. This interdependency is driven by the bird's need for food/energy. ✓ (3) **[4]**

5.1 Water + carbon dioxide -----> Glucose + oxygen
(3)
5.2.1 Starch ✓, cellulose ✓, sucrose ✓
(3)
5.2.2 Starch- energy storage molecule in plants ✓
Cellulose - provides structure and support to plants ✓
Sucrose - the form in which sugar is transported from 1 part of the plant to another ✓ (3) **[9]**

6.1 The clear lime water will turn milky. ✓

(1)

6.2 Carbon dioxide ✓

(1)

6.3.1 The amount of glucose/sugar added ✓

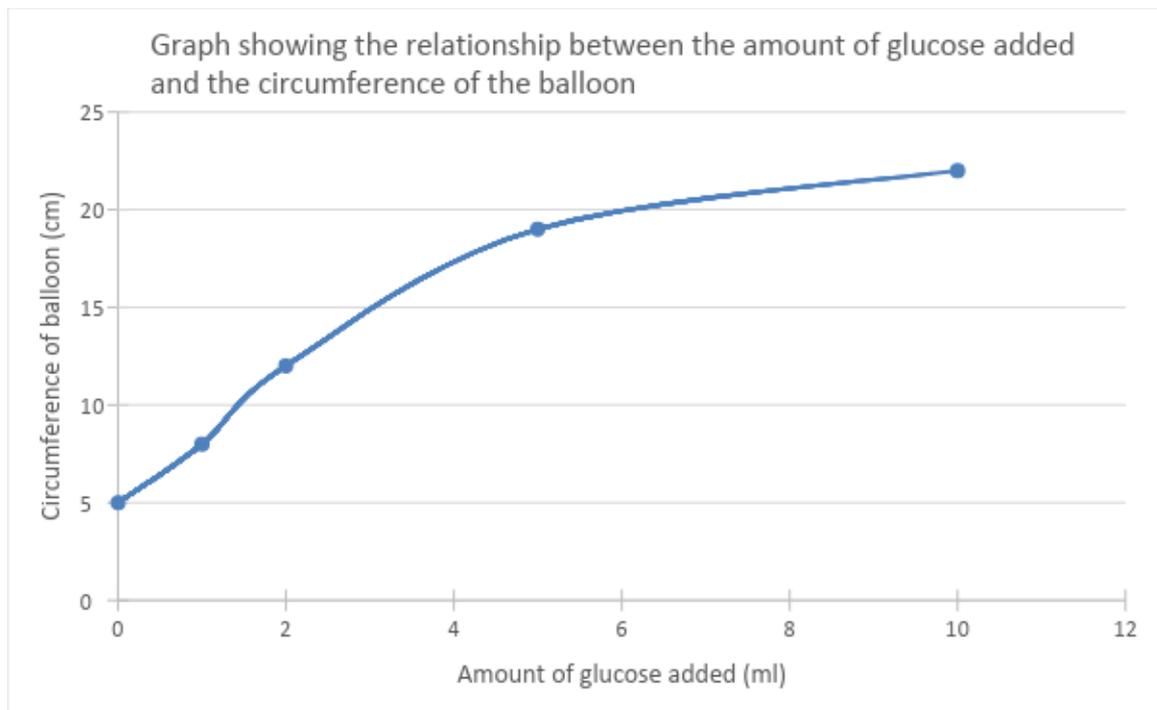
(1)

6.3.2 The (change in) circumference of the balloon/the amount of carbon dioxide produced ✓ (1)

6.5 As the amount of sugar added increases, the balloon will get bigger/the amount of CO₂ produced increases ✓ OR any other acceptable hypothesis

(1)

6.6



(7)

[12]

GRAND TOTAL 40 MARKS