

**Learners coming into the Natural Science stream at Livingstone High School must have developed the following skills:**

- 1) Organise information into a data table.
- 2) Know the variables (dependent, independent and fixed) used in an investigation.
- 3) Be able to measure accurately using various instruments eg beaker, ruler, measuring cylinder.
- 4) Draw bar and line graphs:
  - Working out appropriate, uniform scales for axes
  - Know which variable goes on the X and Y axes
  - Graphs in pencil only
  - Appropriate headings for graphs and tables
  - Circling plotting points for a line graph
  - Joining the points for a line graph with a ruler.
- 5) Differentiate clearly between a hypothesis, aim, and (investigative) question in an investigation.

Examples:

As Jabu was sitting in the back seat of his father's car driving to school, he decided to count the number of differently coloured cars on the road. He saw 103 black cars, 136 white cars, 5 yellow cars, 62 silver-gray cars, 45 blue cars and 91 red cars.

Organise Jabu's information in a table.

4(a)

<b>Vertebrate Group</b>	<b>Number of Species</b>
FISH	2000
AMPHIBIAN	110
REPTILES	400
BIRDS	880
MAMMALS	300

Present the above information in the form of a bar graph.

(b)

<b>TEMPERATURE (°C)</b>	<b>QUANTITY OF POTATOES PER PLANT (KG)</b>
10	1.0
15	2.5
20	7.0
25	6.0
30	3.5

Present the above information in the form of a line graph.