MATHEMATICS **GRADE FOUR**

Unit Title: STATISTICS **Term: ONE** **Unit: FOUR** **Duration: TWO WEEKS**

FOCUS QUESTION: How do I collect, organise, display and interpret information taken from my environment?

ATTAINMENT TARGET	OBJECTIVES	KEY VOCABULARY/ CONCEPTS
• Collect, organise, graph, describe and interpret data in a problem-solving context	**At the end of this unit, pupils will:** • Read and interpret bar, line, circle and picture graphs. • Use sampling techniques to collect information or conduct a survey. • Present data using pictographs and bar graphs • Convert a pictograph into a bar graph and vice versa. • Explain the idea of 'a sample'. • Classify and sort collected data. • Explain the concept of 'population'. • Identify the population in any given problem situation.	Line graphs Bar graphs Pictograph/picture graph Pie chart/circle graph Data Survey Population

ACTIVITY PLAN

PROCEDURES/ACTIVITIES	SKILLS	ASSESSMENT
Pupils will: 1. Work in groups to examine different graphs taken from books, newspapers, Magazines, the computer or produced by the teacher. Focus on: (i) type of graphs (bar, line, circle, picture graphs) (ii) information displayed - title and sample (iii) compare quantities (largest, smallest, differences).	• Reading graphs • Interpreting graphs	• Interpretation of information on graphs
Evaluation: Were pupils able to: • Read information from a graph? • Make deductions and give reasons for their inferences from analysing graphs?	**Materials/Resources:** Books Newspapers Magazines Other graphs (e.g. From the computer or Internet)	

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ACTIVITY PLAN

Focus Question: How do I collect, organise, display and interpret information taken from my environment?

PROCEDURES/ACTIVITIES	SKILLS	ASSESSMENT
2. Report their findings and give their opinions of the graphs examined by other groups.		
3. Discuss what is required for the production of a graph: (a) deciding on a topic to survey (b) deciding on the population and sample (c) collecting data through observation/questionnaire (d) recording data (e) graphing data.		• Presentation of survey
4. Work in groups to carry out their own production of one type of graph using the Steps cited in activity 3 above.	• Sampling a population • Organising information	
5. Display their graphs and analyse graphs of their peers. Give criticisms and Suggestions on the work displayed. Examples of these processes are in "seeing fractions" pp. 107-122.	• Displaying data and graphs • Making inferences about a population/sample	• Graphs
6. Read and interpret information from bar and line graphs. For assessment use "caribbean primary mathematics" – level 4 Pages: 25, 138 (bar graphs), 111,113 (line graphs)		• Solutions to worksheet problems. • Interpretation of graphs
Evaluation: Were pupils able to: • Conduct a survey and report on it? • Give a fairly accurate graphical representation of data? • Complete the exercises from the workbook? • Interpret and draw logical conclusions from information on graphs?	**Materials/Resources:** Sample graphs RU - "Seeing Fractions" "Caribbean Primary Mathematics" - Level 4 Worksheets	