Strand: Exploring, analysing and modelling data
Band: Primary years
Years – Standard: 3
Year Level: 5

Key Idea
Students draw conclusions from data they collect from diverse sources and perspectives, using descriptions of the spread of the data and of relationships within it. They make predictions and informal inferences for larger populations or similar situations, and communicate their conclusions and predictions to a variety of audiences. [F] [Id] [T] [C] [KC1] [KC2] [KC6]

Outcome
3.1 Poses questions, determines a sample, collects and records data including related data, represents sample data in order to investigate the world around them. [In] [T] [C] [KC1] [KC6]
3.2 Summarises, recognises bias, draws conclusions and makes conjectures about data. Understands how different organization and representations influence data interpretation. [In] [T] [KC1]
3.3 Analyses data to search for patterns in events where the range of outcomes is generated by situations where chance plays a role. [F] [In] [T] [KC1]

Task/Activities
1. Apply appropriate information and labelling to mystery graph.
2. Set questions for peers to answer.

Examples of evidence towards achievement of outcomes
Students:
- Demonstrate their knowledge of graphs and graphing by adding their own fictional data to the mystery graph provided.
- Apply all appropriate labelling and data to the mystery graph.
- Demonstrate appropriate interpretation of own and others graphs.
- Pose appropriate questions for peers to answer.
- Use appropriate mathematical language.

Graph on next page
Mystery Graph

1. What sort of information could this graph relate to?
2. How might this information be used?
3. What do you know about this graph?
4. Place names and numbers on this graph.
5. Now that you have added information about the graph, what do you know now about the graph?
6. List three pieces of information that you can interpret from this graph.
7. Display the information in another way.
8. If you were a teacher, write 3 questions you could ask your students about this graph. Use the Blooms Taxonomy sheet and refer to the question clues from knowledge, analysis and evaluation.