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

Key Idea
Students generate and analyse data from a diverse range of sources (including online) and perspectives to investigate situations drawn from their personal lives and the world around them. They use this data to explore patterns and relationships, and to inform their choices and actions. [Id] [T] [C] [KC1]

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]

Students refine their understanding of chance and randomness by using data from their daily activities to describe possible outcomes and their likelihood. They analyse trends and relationships and make predictions about possibilities in the future. [F] [Id] [T] [KC1] [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. Choose a topic to investigate eg favourite foods, sample bags at the show, etc.
2. Formulate questions and gather data.
3. Present data in table and graph form.
4. Analyse data - eg make up questions for peers to answer.

Examples of evidence towards achievement of outcomes
Students:
• Collect data to answer questions
• Plan appropriate and efficient ways to organise data eg tallies and frequency tables
• Represent data on different types of graphs.
• Interpret information from tables and graphs eg formulating questions, comparing and predicting data, use Claris works or Excel to represent information.
• Use appropriate mathematical language.