



TOOL // Grade 1 Data Management Rubric

What is it used for?

The tool is used to assess understanding of concepts covered in the Data Management Math Strand. It includes the four areas of the achievement chart for assessing Data Management Overall Expectations One and Two:

- Collect and organize categorical primary data and display the data using concrete graphs and pictographs, *without regard to the order of labels on the horizontal axis*
- Read and describe primary data presented in concrete graphs and pictographs

How do you use?

Throughout the unit the teacher can use the rubric, as assessment for learning, to gather information through observations and conversations about student understanding and thinking through anecdotal notes. At the end of the unit students participate in a math investigation to apply their understanding. When students are engaging in the investigation the rubric is used for summative assessment. The teacher documents conversations and asks probing questions to assess understanding. As well, it allows the teacher to reflect on all observations and assessments collected throughout the unit to evaluate the student's overall understanding of the expectations.

How do you adapt it to other subjects and topics?

This rubric can be adapted for any strand in mathematics. The expectations just need to be altered to fit the strand.

Data Management: Surveying, Graphing and Sorting Information

Name: _____

We have been learning to sort, survey and graph data to learn new information. We have been describing our understanding of data on pictographs using math language.	With teacher support Beginning to understand concepts presented in data management and apply few with support (Level 1)	Working On It, Some Understanding of data management concepts, but requires some support to apply in familiar contexts (Level 2)	Made It, Understand most data management concepts and applies with few minor errors or omissions (Level 3)	Thorough Understanding of data management concepts and able to apply concepts to a variety of contexts (Level 4)
Knowledge and Understanding: Able to sort and classify objects Able to describe the sorting rule that was used. Collect data by surveying friends and sort the data into categories Display data using a labelled pictograph				
Thinking: Understands that people survey to learn information and that pictographs show information				
Communication: Shows mathematical thinking and understanding in an organized way using charts, graphs, tally marks, numbers and words				
Application: Able to develop a survey question, and able to describe what was learned from the data				

Feedback: _____
