

## **Grade 6 Unit 2: Data, Abstraction and Modeling (Google Sheets with a Purpose)**

## **Unit Focus**

This unit continues the students' journey into coding by having them collect and analyze data on the animation they created. This will involve placing the data into a spreadsheet, graphing the data in a meaningful way and learning how to analyze data using statistics. In this performance task, students will apply these skills in analyzing the data collected from both of their peers' ratings in evaluating their growth between the "favorite food" and "narrative" animations.

## **Stage 1: Desired Results - Key Understandings**

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Meaning		
<b>Understanding(s)</b>	Essential Question(s)	
Students will understand that U1 Mathematicians select and use appropriate statistical methods and tools to analyze data, show trends, evaluate inference and/or describe or make predictions.	Students will keep considering Q1 How can statistics help us make decisions? Q2 What is the best way to describe this data? Q3 How do visual representations of data help us understand the data?	
Acquisition of Knowledge and Skill		
Knowledge	Skill(s)	
Students will know  K1 Data in a spreadsheet can be turned into graphs and charts for a visual understanding of data.  K2 Vocabulary: continuous data, discrete data, frequency, bins, range, mean, mode, median, quartiles	Students will be skilled at  S1 Manipulate the data in a spreadsheet to create a graph or chart.  S2 Find the Mean, Median, Mode and Range in a given set of data.  S3 Interpret data from statistics, charts and graphs.  S4 Collecting and sharing data on number lines, bar graphs, pie charts, histograms and	
	Students will be able to independently use the T1 Explore and learn techniques, skills, meth performance.  Method Understanding(s)  Students will understand that  U1 Mathematicians select and use appropriate statistical methods and tools to analyze data, show trends, evaluate inference and/or describe or make predictions.  Acquisition of K  Knowledge  Students will know  K1 Data in a spreadsheet can be turned into graphs and charts for a visual understanding of data.  K2 Vocabulary: continuous data, discrete data, frequency, bins, range, mean, mode,	