Grade 3 Technology Unit 3: Data & Analysis

Content Area: **Technology**
Course(s): **Technology Grade 3**
Time Period: **MP3**
Length: **7 days**
Status: **Published**

NJSLS - Computer Science and Design Thinking

CS.3-5.8.1.5.DA.1	Collect, organize, and display data in order to highlight relationships or support a claim.
CS.3-5.8.1.5.DA.2	Compare the amount of storage space required for different types of data.
CS.3-5.8.1.5.DA.3	Organize and present collected data visually to communicate insights gained from different views of the data.
CS.3-5.8.1.5.DA.4	Organize and present climate change data visually to highlight relationships or support a claim.
CS.3-5.8.1.5.DA.5	Propose cause and effect relationships, predict outcomes, or communicate ideas using data.

Rationale and Transfer Goals

During this unit, students will be learning about data analysis using Google Sheets. They will create a study and use their class to conduct the study. Students will input their findings into Google Sheets to help them create data charts that will be used to interpret their findings. This will help them further their understanding of data and analysis, which they will continue to learn about in the future.

Enduring Understandings

Data needs to be presented in a clear and straightforward manner in order to be effective.

Essential Questions

How can I input my findings into Google Sheets to create data charts?

How can I interpret my data?

Content - What will students know?

- Define "column"

- Define "row"

- How to properly collect data

- How to input data in Google Sheets

- How to turn data into graphs and charts.

- How to draw conclusions based on data.

Skills - What will students be able to do?

- Identify a column and row.

- Go to other third grade classes to poll students on their topic and tally and record data.

- Individually, input data to Google Sheets using the skills learned in class.

- Display data using charts on Google Sheets.

- Draw a valid conclusion from their data.

Activities - How will we teach the content and skills?

- Show examples of columns and rows using data tables.

- Model data collection with class.

- Model how to set up Google Sheets to show how to record data.

- Model how to display charts on Google Sheets.

- Model drawing conclusions from data using sample graphs and charts.

Evidence/Assessments - How will we know what students have learned?

- Using a grid, identify a column and row.

- Collected data sheets.

- Google Sheets data.

- Google Sheets data charts

Spiraling for Mastery

Content or Skill for this Unit	Spiral Focus from Previous Unit	Instructional Activity
Data Inputting	Collecting data from a weather website using researching skills	Chart the weather for a month and create data charts using Google Sheets

Key Resources

Google Sheets

BrainPop (Graphs)

21st Century Life and Careers

WRK.9.2.5.CAP.1	Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
WRK.9.2.5.CAP.4	Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements.

Career Readiness, Life Literacies, & Key Skills

TECH.9.4.5.TL.1	Compare the common uses of at least two different digital tools and identify the advantages and disadvantages of using each.
TECH.9.4.5.TL.2	Sort and filter data in a spreadsheet to analyze findings.
TECH.9.4.5.IML.2	Create a visual representation to organize information about a problem or issue (e.g.,

	4.MD.B.4, 8.1.5.DA.3).
TECH.9.4.5.IML.3	Represent the same data in multiple visual formats in order to tell a story about the data.

Interdisciplinary Connections/Companion Standards

Literacy and language arts in the technology context:writing, programming, word processing, and creativity with language

Science: understanding of computer components, operations of touchscreens and other user devices

Social Studies: Computers in the context of society; our relationships to computers as a tool

Health: Limits to screen time and healthy relationships with technology, online technologies

Art: Extensive connections to visual art, design, and multimedia creation through movie-making software

MA.K-12.3	Construct viable arguments and critique the reasoning of others.
MA.K-12.4	Model with mathematics.
MA.K-12.5	Use appropriate tools strategically.