

AIMS™ Compendium Template  
Organizing Data  
Survey

Favorite Read ALOUD Book

Book A THE  
Book B THE  
Book C THE

Tally Marks

one	
five	

Title/Focus: Data... of facts

A Collection

Tally Chart

What is your favorite Super Power?

Power	Tallies	Total
Super Strength		
Invisibility		
Flight		

Tally Chart

What is your favorite read aloud book?

Title	Tallies	Total
Book A		
Book B		
Book C		

Picture Graph

Title: Favorite Super Power

Strength	
Invisibility	
Flight	

Key: □ = 1 vote

Mathematical Standards and Practices

We will organize, represent, and interpret data by attending to precision.

We will analyze our data by asking and answering questions.

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Inquiry Chart

What we know about Data?      What we want to learn about Data?

**UNIT PLANNING TOOL**

**Planning Focus: 1<sup>st</sup> Grade Data**

**Module(s)/Unit(s): Georgia Standards of Excellence, Unit 4**

**CCSSM:**

CCSS.MATH.CONTENT.1.MD.C.4

Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

**Mathematical Practices being emphasized:**

- 3. Construct viable arguments & critique the reasoning of others
- 6. Attend to precision

**Essential Questions**

Why do we collect data?

How can we organize data?

How do tally marks help us understand data?

**Key Concepts**

Collecting and organizing data

Tally Charts

Picture Graphs

**Pre and Post Assessments**

Write tally marks for the number 4 & 8.

Write the number that matches twelve tally marks.

Create tally chart. How many more tables are there than clocks in the classroom?

**Visual Models/ Algorithms/ Diagrams for Compendium**

**Tally Chart**

What is your favorite read aloud book?

Title	Tally Marks	Total
Book A		
Book B		
Book C		

**Tally Marks**

one 1	I
five 5	
eight 8	 

**Picture Graph**

Title: Favorite Super Power

Strength	
Invisibility	
Flight	

Key:  = 1 vote

**Connections (Real World Applications)**

What data might a first grader need to collect?

Why might you need to write tally marks?

When might you need to use tally marks?

**Language Functions/Structures**

There are \_\_\_\_ tally marks for \_\_\_\_.

There are more \_\_\_\_ than \_\_\_\_.

There are fewer \_\_\_\_ than \_\_\_\_.

We can organize the data by \_\_\_\_.

One kind of data I can collect is \_\_\_\_.

I can collect data about \_\_\_\_.

My favorite \_\_\_\_ is \_\_\_\_.

\_\_\_\_ students voted for \_\_\_\_ and \_\_\_\_ together.

Together there are \_\_\_\_ votes for \_\_\_\_ and \_\_\_\_.

There are \_\_\_\_ more voted for \_\_\_\_ than \_\_\_\_.

\_\_\_\_ has the most votes.

\_\_\_\_ has the fewest votes.

\_\_\_\_ is my favorite \_\_\_\_.

**Vocabulary**

Data	organize	analyze
Tally marks	collect	5 group
Tally chart	more than	
Survey	less than	
Picture Graph	fewer	
Key	table	

**Focus and Motivation**

Video: Brain Pop Jr., Pictographs

Chant: Data Here, Data There

Read Aloud:

- Tally O'Malley by Stuart Murphy & Cynthia Jabar
- The Great Graph Contest by Loreen Leedy

Online games:

- Fuzz Bugs Graphing, ABCYA
- Picture Graphing with Fish, Education.com
- Color Bar Graph, Education.com
- Sorting at the Zoo, Education.com