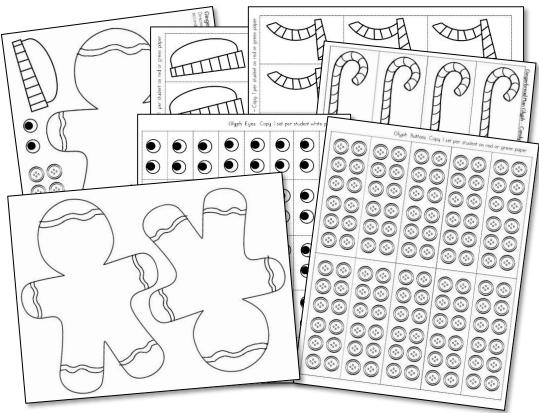


## GINGERBREAD MAN GLYPH

## GENERATE DATA

by making a glyph



Use the class set templates or the I-page color & cut







# DECORATE FOR DATA

or generate data by using real cookies!



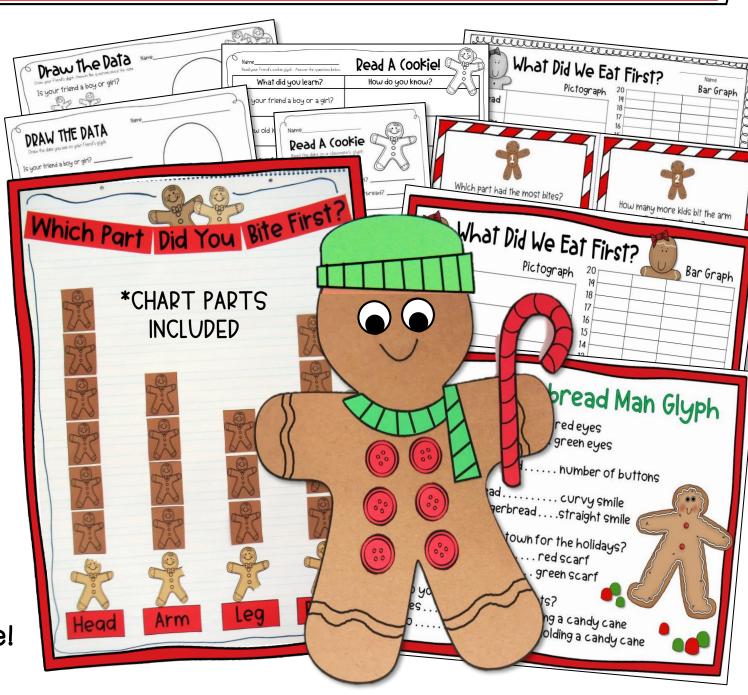


## 5 GRAPHING ACTIVITIES

Address standards for Grades I-2

GENERATE, ORGANIZE, REPRESENT, INTERPRET, & ANALYZE DATA

With multiple student pages to easily differentiate!





## MATH TALK & (RITICAL THINKING)

## GRAPH (HAT (ARDS

enable students to discuss the data and solve simple put-together, take apart, and compare problems using information represented in their bar graphs



## LESSON PLANS & TEACHER'S NOTES



## STEP 1: DECORATING FOR DATA

## Making the Glyph

OBJECTIVE: Students will generate data by representing

Use the one page color and cut version



1 can white frosting per 12-14 students 1 small paper cup per student

1 plastic knife per student

1 paper plate per student candu to decorate the cookies

CANDY DECORATION OPTIONS:



s alue

What Did We Eat First?

What Did We Eat First?

111111

Draw the Data

Draw the Data

5 6 7 8 9 D

## COMMON CORE STANDARDS ALIGNMENT

**GRADE 1** Represent and interpret data

Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in

STÉP 3: ORGANIZING THE DATA

GRADE 2 Represer

Draw a 2. MD.D.10 data set

Students will organize data to create a bar graph with

## 20 THE THE STEP 2: INTERPRETING THE GLYPHS

OBJECTIVE: Students will interpret the data on a glyph by answering questions.

of student pages d glyphs

ect and redistribute each completed gluph to a erent student. Ask students NOT to look at the name

GRAPH (HAT

CRITICAL THINKING DISCUSSION CARDS

## STED 4: DEDRESENTING THE DATA

<u>Students will dr</u>aw a picture graph and a bar graph with single-unit

visual, "What Did We Eat First?" ent graphing pages

the data on the class graph and discuss what it eview the differences between a pictograph and

ne number of data points in each category with students. Using the projected model how to represent the data in the bar graph and the pictograph

use the class graph as a guide to draw their own graphs with matching data on

udents answer the questions about the graphs at the bottom of the page

## of the good of the second **DLANNING THE DROJECT**

\*The activities can be spaced from 1-3 days. Adapt them to the amount of time you have to spend.

## DAY 1 STED 1: DECORATING FOR DATA-MAKING THE GLYDH

Generate data by decorating a paper gingerbread man glyph or decorat real gingerbread man cookies with red and green candy. Be sure student are on the back side of the paper glyphs before you start. You'll need the

## STED 2: INTERPRET A FRIEND'S GLYPH

Collect and redistribute each completed glyph to another student. Ask the name on the back. Students "read" the glyphs then interpret and explain by answering questions Differentiate for a variety of ability levels with of student pages

## DAY 2 STEP 3: TAKE ONE BITE

I've done this a couple of different ways when making paper glyphs. Option 1. Pass out small gingerbread cookies for students to bite Option 2. Have students snip off a "bite" of their paper glyph with scisso Option 3: Have students take a "pretend bite" of their paper gluph. If decorating an actual cookie glyph, have students take a bite

## STEP 4: GRAPHING THE DATA

Create a class graph, "What Part Did You Eat First?" Students then draw pictograph that match the data on the class graph.

## DAY 3 LESSON 5: DISCUSSING THE DATA

Place students in small groups to compare, add and subtract the data poin

## STEP 5: DISCUSSING THE DATA

Students will solve simple put-together, take-apart, and compare problems using information presented in a bar graph.

Previously completed "What Did We Eat First" student pages Previously made class graph available for reference 1 set of Graph Chat cards for each group of 3-4 students

1. Look at the data on the class graph and discuss what it represents. Review the differences between a pictograph and a bar graph.

visual, model how to represent the data in the bar graph and the pictograph.

CLASS GRADH

2. Discuss the number of data points in each category with students. Using the projected lesson

MAKE IT EASY TO PLAN, PREP & DIFFERENTIATE

## GINGERBREAD MATH GLYPH & GRAPHING ACTIVITIES

