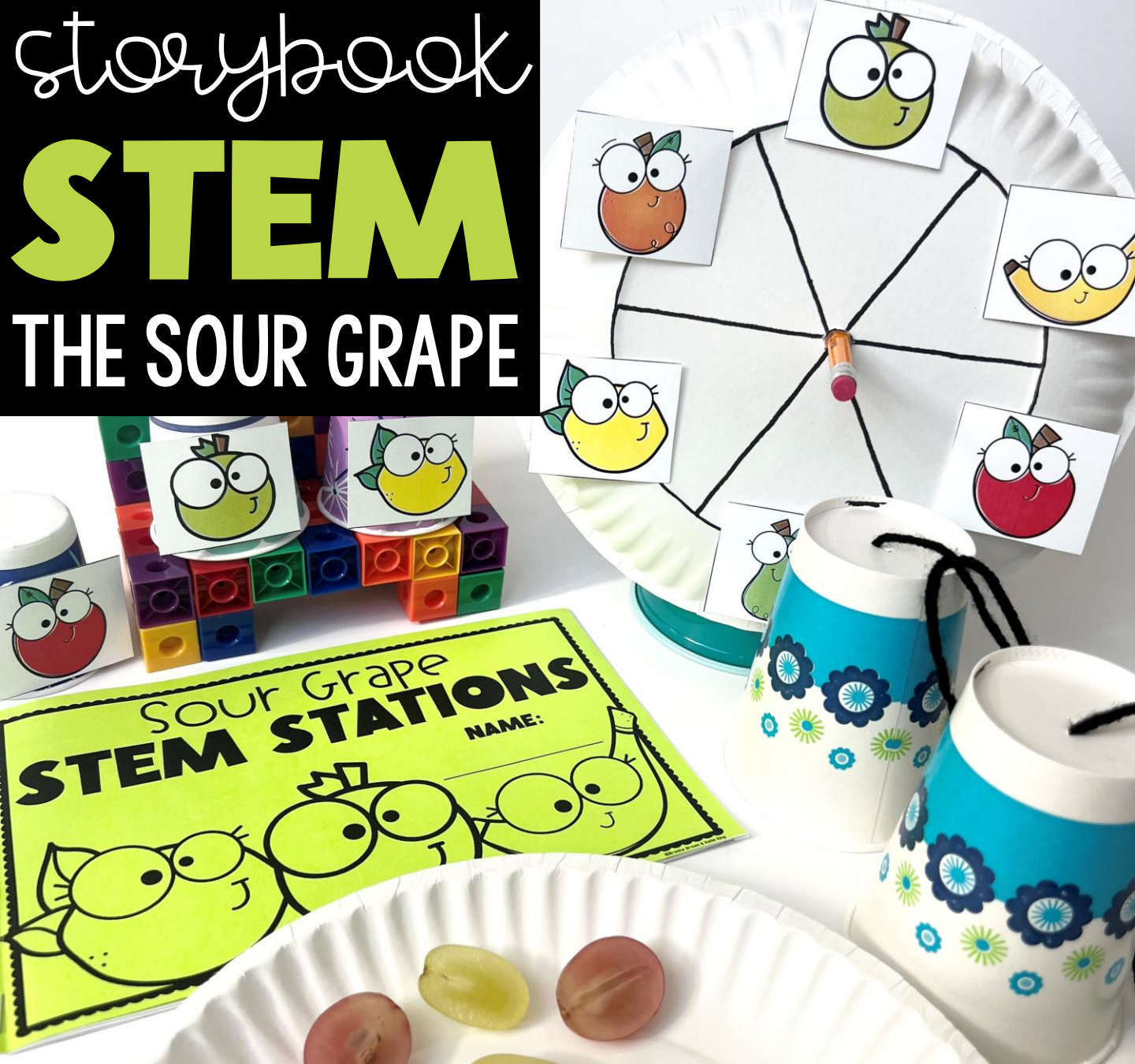


# storybook

# STEM

## THE SOUR GRAPE



CREATED BY BROOKE BROWN AND KATIE KING

# 4 Sour Grape STEM Stations

## BUDDY BENCH

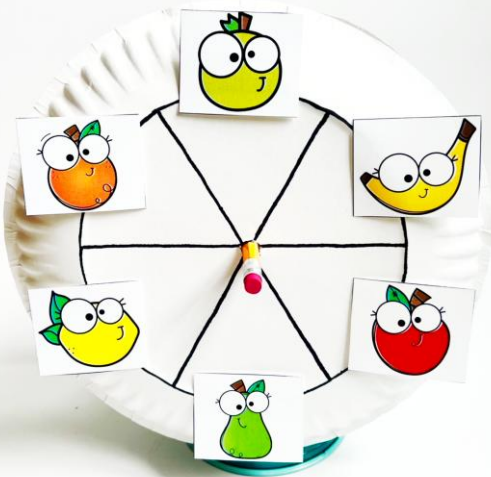
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## HEARD IT THROUGH THE GRAPEVINE



## FRIENDSHIP FERRIS WHEEL



## GRAPE DISSECTION



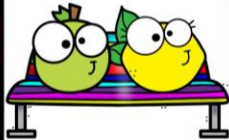


# STEM

## 4 challenge stations with background info and student recording booklet!

### BUDDY BENCH

Can you build a bench to hold the sour grape and his fruit buddies?



#### YOU MAY USE:

- base ten blocks
- linking cubes
- pattern blocks
- fruit characters taped to mini cups

### FRIENDSHIP FERRIS WHEEL

Can you create a working Ferris wheel to hold the sour grape and his fruit friends?



#### YOU MAY USE:

- paper plates
- large cups
- unsharpened pencils
- fruit characters
- tape
- scissors

### How to Make a Ferris Wheel

Use scissors to make a small hole in the center of a paper plate. In this one, we used a pencil. You can use a sharp object.



Place a hole in the middle of the other paper plate and put it on the other side of the pencil. Tape the plates together between the plates.



### Explore More

#### BUDDY BENCH



#### HEARD IT THROUGH THE GRAPEVINE

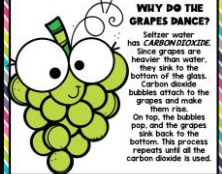


#### GRAPE DISSECTION



### Grape Dance Party

Try this fun science experiment! Fill a large jar or glass with seltzer or fizzy water. Drop in some grapes and watch what happens!



**WHY DO THE GRAPES DANCE?**  
Seltzer water has CARBON DIOXIDE. Since grapes are heavier than water, they sink to the bottom of the glass. Carbon dioxide bubbles attach to the grapes and make them rise. On rise, the bubbles pop, and the grapes sink back to the bottom. This process repeats until all the carbon dioxide is used.

### HEARD IT THROUGH THE GRAPEVINE

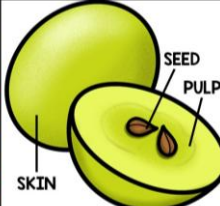
Can you create a set of cup phones and use them to talk with a friend across a distance?



#### YOU MAY USE:

- paper cups
- paper clips
- yarn

### GRAPE DISSECTION



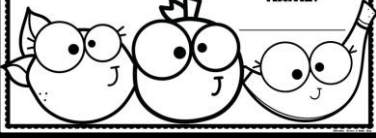
Can you dissect a grape and label the parts?

#### YOU MAY USE:

- seeded table grapes
- plastic knives
- toothpicks

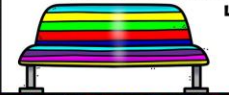
### Sour Grape STEM STATIONS

NAME: \_\_\_\_\_



### DID YOU KNOW?

A Buddy Bench can help kids make new friends and feel more included at school. Buddy Benches are found in thousands of playgrounds across the country.



#### LEARN MORE



### DID YOU KNOW?



A Ferris wheel is an example of a WHEEL and AXLE, which is a simple machine. A wheel and axle both turn in the same direction around a single center point. The force is applied to the axle by the Ferris wheel's motor, which causes the large wheel to turn.

#### LEARN MORE



### DID YOU KNOW?

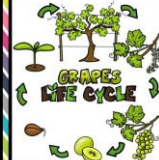
When you talk into your cup, the bottom of the cup vibrates back and forth with SOUND WAVES. The vibrations move through the yarn and into the bottom of the other cup. Those vibrations produce sound waves that your partner can hear.



#### LEARN MORE



### DID YOU KNOW?



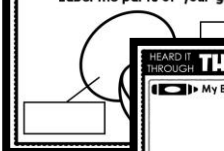
Grapes are actually berries! Each fruit grows from a single flower on the grapevine. There are more than 8,000 different kinds of grapes. Grapes are high in Vitamin C and Vitamin K.

#### LEARN MORE



### GRAPE DISSECTION

Label the parts of your grape.



### HEARD IT THROUGH THE GRAPEVINE

My Blueprint

NAME: \_\_\_\_\_



### FRIENDSHIP FERRIS WHEEL

My Blueprint

NAME: \_\_\_\_\_

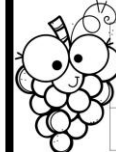


### Sour Grape STEM STATIONS Reflection

Which station was your FAVORITE?

Which station was EASIEST?

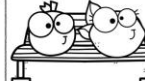
Which station was HARDEST?



### BUDDY BENCH

My Blueprint

NAME: \_\_\_\_\_



How many fruit friends does your buddy bench hold?

# ELA

## LESSON PLANS

## KEY VOCABULARY

### THE SOUR GRAPE

1. Read this unit's book. The

2. After reading use the digital poster to talk to students about how using illustrations helps understand the text better. Discuss with students how authors and illustrators work together.

3. Create a class anchor chart. Use the adding

### THE SOUR GRAPE

4. Students should pick two illustrations from the book that added meaning to the text.

5. Use the digital poster to discuss major events in stories and how they impact the characters.

6. Make a whole class anchor chart to investigate how different events throughout the book that impacted Grape.

### THE SOUR GRAPE

8. Use the digital poster to discuss the nonliteral language in the book.

9. Use the digital poster to discuss the nonliteral language in the book.

considerate

careful not to hurt others

scowl

to make an angry face

prominent

sticks out; is important

draining

tiring; exhausting

Name: \_\_\_\_\_

### Vocabulary in Action!

Directions: Fill in the blank to complete the phrase in a way that makes sense.

Name: \_\_\_\_\_

### VOCABULARY

Use the four words below to label the pictures.

considerate draining scowl prominent

Draw pictures of the four vocabulary words.

considerate

scowl

draining

prominent

## TEACHER CHARTS

### INFORMATION In Illustrations

I think she is nervous about meeting new people. After looking at the photo, I think there is a chance the cat will eat the snacks and embarrass her!

I think Jillian's mom might be upset that she let the kids make such a huge mess.

I think the kids are having fun baking brownies for their school project.

### Information In Illustrations

Illustrators include useful information in **pictures** to tell us about the characters, the action, and other parts of the story.

### Idioms

When Lila screamed in the library, her mom told her to zip her lips.

A common phrase that **does not mean** exactly what it says.

### Major Events

Interesting things that happen in a story that **change the character** are called major events.

We learn a lot about a character's personality when we pay attention to how they **respond** to these major events.

### MAJOR EVENTS

Event	Impact
When Grape was little, his grandparents would visit and talk to them about how they should act.	He was grateful and kind because he knew how lucky he was.
No one showed up to his huge birthday party.	He was so hurt that he became bitter and blamed everyone for his pain. He held LOTS of grudges.
Grape had a terrible day where everything made him really late to meet up with a friend.	He realized how it felt for someone to hold a grudge and not forgive you. He started to change his behavior and be nicer!

## STUDENT PRINTABLES

Name: \_\_\_\_\_

### Information in Illustrations

Pick two illustrations from the book and write about what you learned from those pictures.

Grape didn't always used to be grumpy. Even when someone accidentally squirted mustard on him he was able to laugh it off!

When Grape saw how it felt to be treated badly, he was able to reflect and see how it felt when

Name: \_\_\_\_\_

### How does he respond to a MAJOR EVENT?

Directions: Draw and write about a major event in *The Sour Grape* and how the main character responded to that event.

Grape planned a really big party and invited all of his friends. There was a Ferris wheel and even fireworks! He waited, but no one showed up. His feelings were so hurt, and he didn't know how to deal with them, so he just became mean! He held grudges and lost most of his friends!

Don't be a **sour** Grape!

All About Idioms

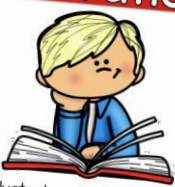
**Idiom:** I've got pretty "thin skin"

When you say someone is thin-skinned, they mean that you don't take criticism well



# ELA

## Information in Illustrations

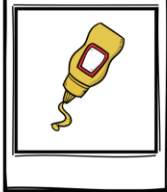


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Name: \_\_\_\_\_

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INFORMATION In Illustrations



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I think the kids are having fun baking brownies for their school project.



Brock's dad wanted the cookout to be amazing, so he grilled even when it was pouring down rain!

**considerate**  
  
 careful not to hurt others

**scowl**  
  
 to make an angry face

**prominent**  
  
 sticks out; is important

**draining**  
  
 is exhausting

## Vocabulary in Action!

Directions: Fill in the blank to complete the phrase in a way that makes sense.

Write your name **prominently** on the front of \_\_\_\_\_

It is so **draining** when \_\_\_\_\_

He **scowled** at his mom when she took his \_\_\_\_\_

Bella is so **considerate** \_\_\_\_\_



## MAJOR EVENTS



### Event

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### Impact

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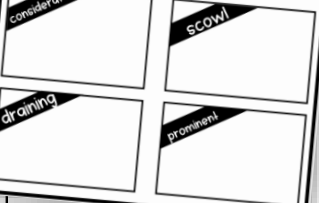
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