

# storybook STEM

## LOVE & FRIENDSHIP EDITION

### STICK AND STONE

### I'LL LOVE YOU TILL THE COWS COME HOME



CREATED BY BROOKE BROWN AND KATIE KING

# STICK AND STONE

## PROPERTIES OF NATURAL MATERIALS

OBJECT PROPERTIES



**GIFT OF FRIENDSHIP**

SHIP

What did you

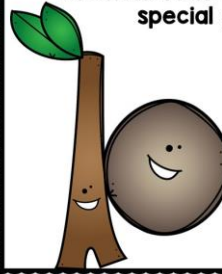
Who is this

Materials That I Used PR (Size)

## GIFT OF FRIENDSHIP

You need to show a friend how much you care!

Use materials from nature to create a special gift of friendship.



### YOU WILL NEED:

- plastic or paper bag
- materials from nature such as twigs, pebbles, leaves, and flowers
- air dry clay

## LET'S EXPLORE PROPERTIES!

### SENSES



### NATURAL OR MANMADE?



### PROPERTIES OF MATERIALS

### OBSERVING PROPERTIES

## GIFT OF FRIENDSHIP

### SENSE



a way that we observe something using sight, touch, smell, or taste

### OBSERVE



to notice how something looks, feels, sounds, smells, and tastes

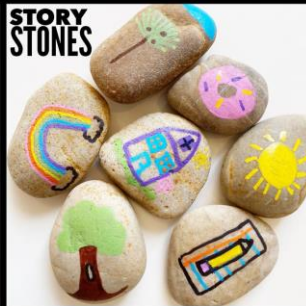
### PROPERTIES



## BALANCING ACT



## STORY STONES



## NEZ PERCE STICK GAME



MAKE AND GUESS

# I'LL LOVE YOU TILL THE COWS COME HOME



## VALENTINE TRANSPORTER

You need to send a Valentine to a friend!  
Create a movable mode of transportation  
that can carry a Valentine.



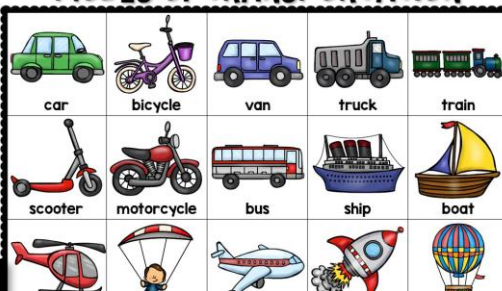
### YOU WILL NEED:

- construction paper
- paper rolls
- aluminum foil
- tape/glue
- building bricks
- small Valentine card

## MODES OF TRANSPORTATION

| Mode of Transportation | Land, Water, or Air? | What Does it Move? | How Does it Move? |
|------------------------|----------------------|--------------------|-------------------|
|                        |                      |                    |                   |
|                        |                      |                    |                   |
|                        |                      |                    |                   |
|                        |                      |                    |                   |
|                        |                      |                    |                   |
|                        |                      |                    |                   |

## MODES OF TRANSPORTATION



## VALENTINE TRANSPORTER

### TRANSPORT

to take or carry people or goods  
from one place to another by  
means of a vehicle, aircraft, or ship



### CARGO

goods that are transported by  
vehicles, air crafts, or ships



### VEHICLE

an object  
used for  
transport  
(moving  
objects or  
people)



### FORCE

a push  
pull on  
an object



YES NO

## LET'S EXPLORE TRANSPORTATION

### LAND TRANSPORT



### AIR TRANSPORT



### WATER TRANSPORT



### PUSHES AND PULLS



# STICK AND STONE

**SHOW US YOUR SYNONYMS**

|                                                                                         |                                                                                             |                                                                                          |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|  stick  |  stone     |  person |
|  gift   |  present   |  gift   |
|  hard   |  difficult |  person |
|  finish |                                                                                             |                                                                                          |

**windblown**



looking messy due to being blown by the wind

**laze**



to spend time in a relaxed way

**vanish**



to disappear suddenly

**wander**



to walk without a goal

**AD STONE**

**SAD**



They are happy when they are together. They are smiling in the illustrations.

**Synonyms**

Words that mean exactly the same or very close to the same thing.

|                                                                                         |                                                                                         |                                                                                            |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|  loud  |  tiny  |  trash   |
|  noisy |  small |  garbage |

That man was furious! I don't think I've ever seen anyone so angry before!

**VOCABULARY**

Use the words below to complete the sentences.

|      |           |        |        |
|------|-----------|--------|--------|
| laze | windblown | wander | vanish |
|------|-----------|--------|--------|

Pop! vanish Windblown

Wander laze

Vanish Pizza laze TV

**Vocabulary in Action!**

Name: Kelly

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

laze like a cat in a sunny spot.

lady

**IDENTIFYING Characters' Feelings**



We can use the words in a text and the illustrations to help us figure out how a character is feeling.

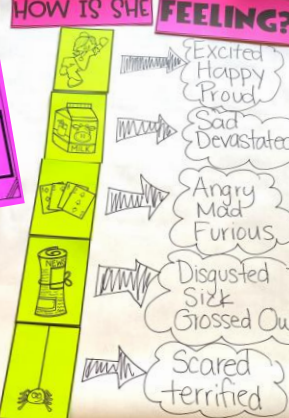
**SHOW US YOUR SYNONYMS**

Directions: Pick two sets of synonyms. Use them in sentences.

He is an only child. This means he is the only kid in his family.

I am so tired. I don't know that I've ever been this sleepy before!!

**HOW IS SHE FEELING?**



Excited  
Happy  
Proud  
Sad  
Devastated

Angry  
Mad  
Furious

Disgusted  
Sick  
Crossed Out

Scared  
terrified

E  
L  
A

# ELL

# I'LL LOVE YOU TILL THE COWS COME HOME

**Vocabulary in Action!**  
Directions: Fill in the blank to complete the phrase in a way that makes sense.

strum like a famous musician in concert

unknown as the new kid on his first day.

settle like a dog in his bed at night.

The concern is that you didn't study!

Name: **Jaime**  
**VOCABULARY**  
Use the four words below to add the pictures.

|         |         |         |         |
|---------|---------|---------|---------|
| unknown | concern | strum   | settle  |
| settle  | unknown | strum   | concern |
| strum   | settle  | concern | unknown |
| concern | settle  | strum   | unknown |

Draw pictures using the vocabulary words.



down  
town  
brown

**WHAT I HEAR REPEATED:**

- why you gotta be so mean?  
- living in a big city

Taylor Swift  
Mean

**WHAT IN THE WORLD?**

"Hit the Books"  
Jake - Study  
Smile - head

"Catch some Z's"  
LaNisha - Sleep!  
Vera - learn your letters

"Needle in a Haystack"  
Liam - good on the hard to find

"Crying over Spilt milk"  
Justin - Oh-Oh  
Miranda - Getting upset over something that's already happened

**Repetition**  
when sounds, words, or phrases are used **more than once**

You hear this every day in popular music. The repeated part of a song is called the **refrain**.

**How Much I Love You!**  
Name: **Katie**

I love you like a swarm of bees on the hunt for honey!!

**Rhythm and Rhyme**  
Rhythm is the strong, regular pattern of **beats** in the words.

Rhyme is when the ends of two or more words **sound alike**.

**strum**  
to slowly play parts of a song on a guitar

**concern**  
worry or concern

**settle**  
to sit or rest in a comfortable spot

**unknown**  
not known or unfamiliar

**Idioms**  
A common **expression** that is used to make a point but not to be taken literally.

ants in her pants

all in the same boat

he's on top of the world

she let the cat out of the bag