

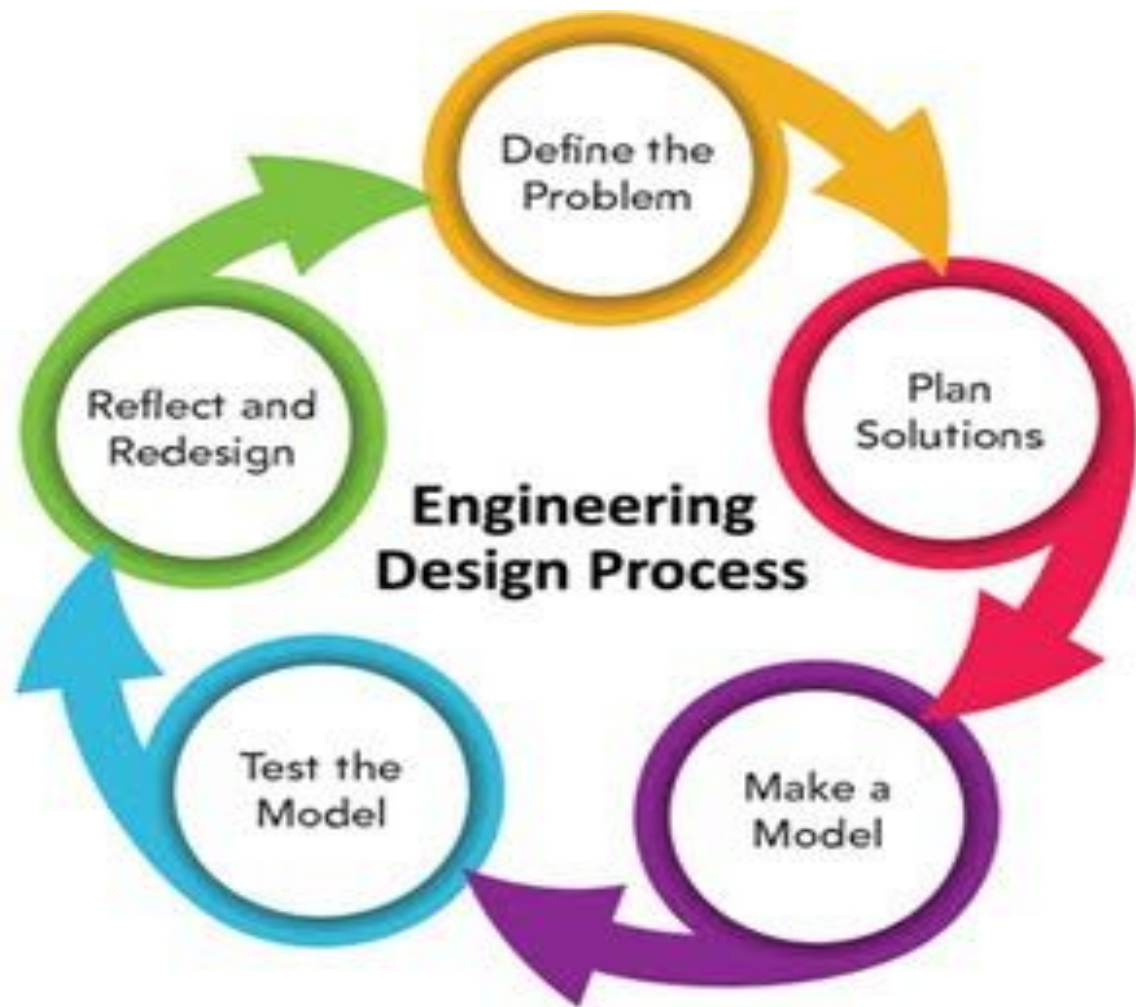
Full STEAM Ahead

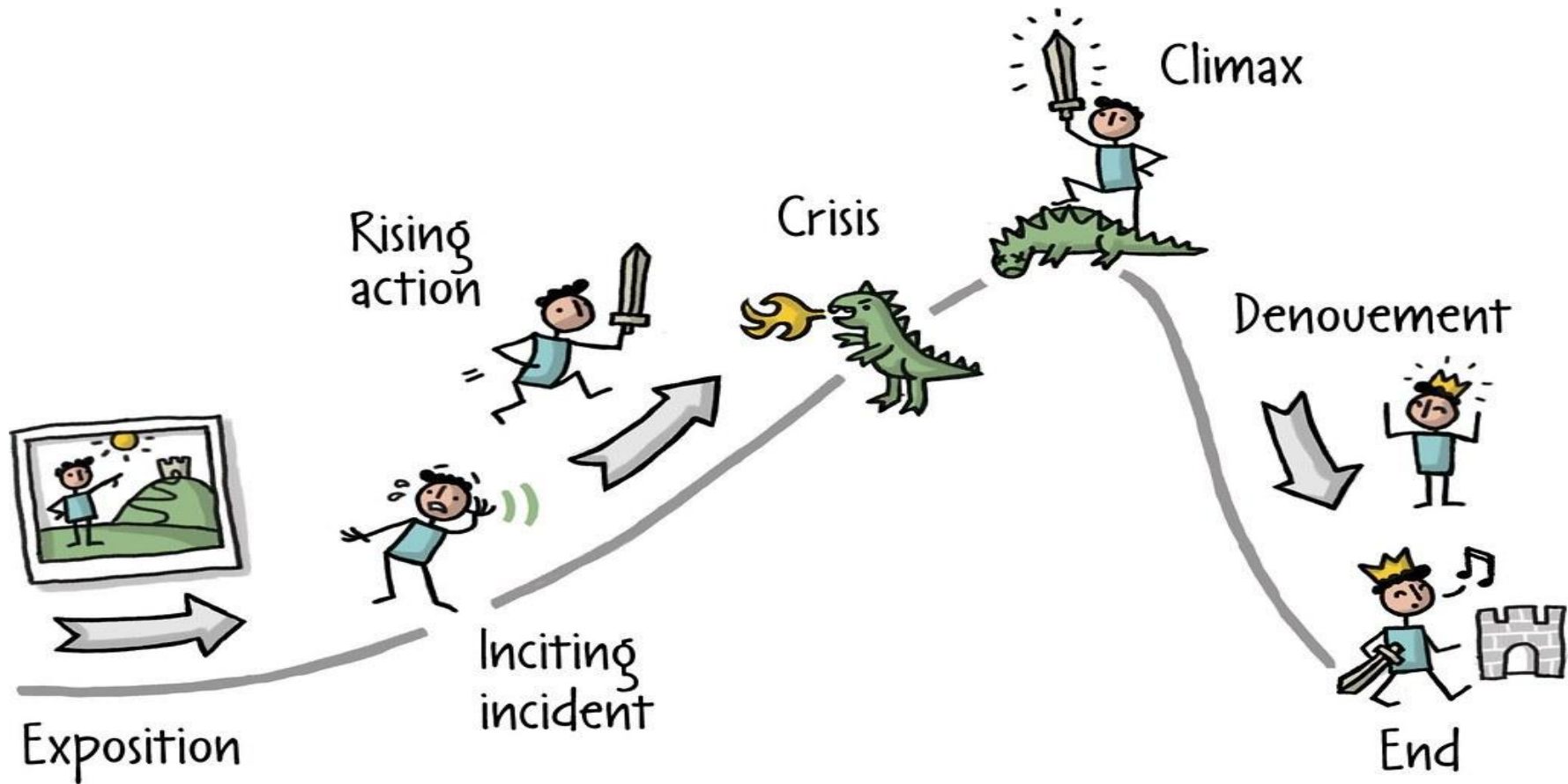
Exploring the Engineering Design Process Through Story
Deconstruction & Reengineering .

Kristen Manning

BRCVPA
Library Media Specialist







How do you get information from a story?

Form, Coding & Structure of a Story

The FORM of a story is words.

Beginning

Middle

End

Punctuation that tells us where to stop, start, get loud, soft, speak...CODE

STRUCTURE - How we structure a story impacts how we receive information.

The background of the image shows several bright pink paper flowers hanging from dark brown tree branches. The flowers are made of multiple layers of paper, giving them a ruffled, petal-like appearance. They are suspended by thin wires or threads. The background is a clear blue sky with some green foliage visible in the lower right corner.

Yeah, so what are we going to do?

We will use the pieces of
the story to reengineer the
story into something else.

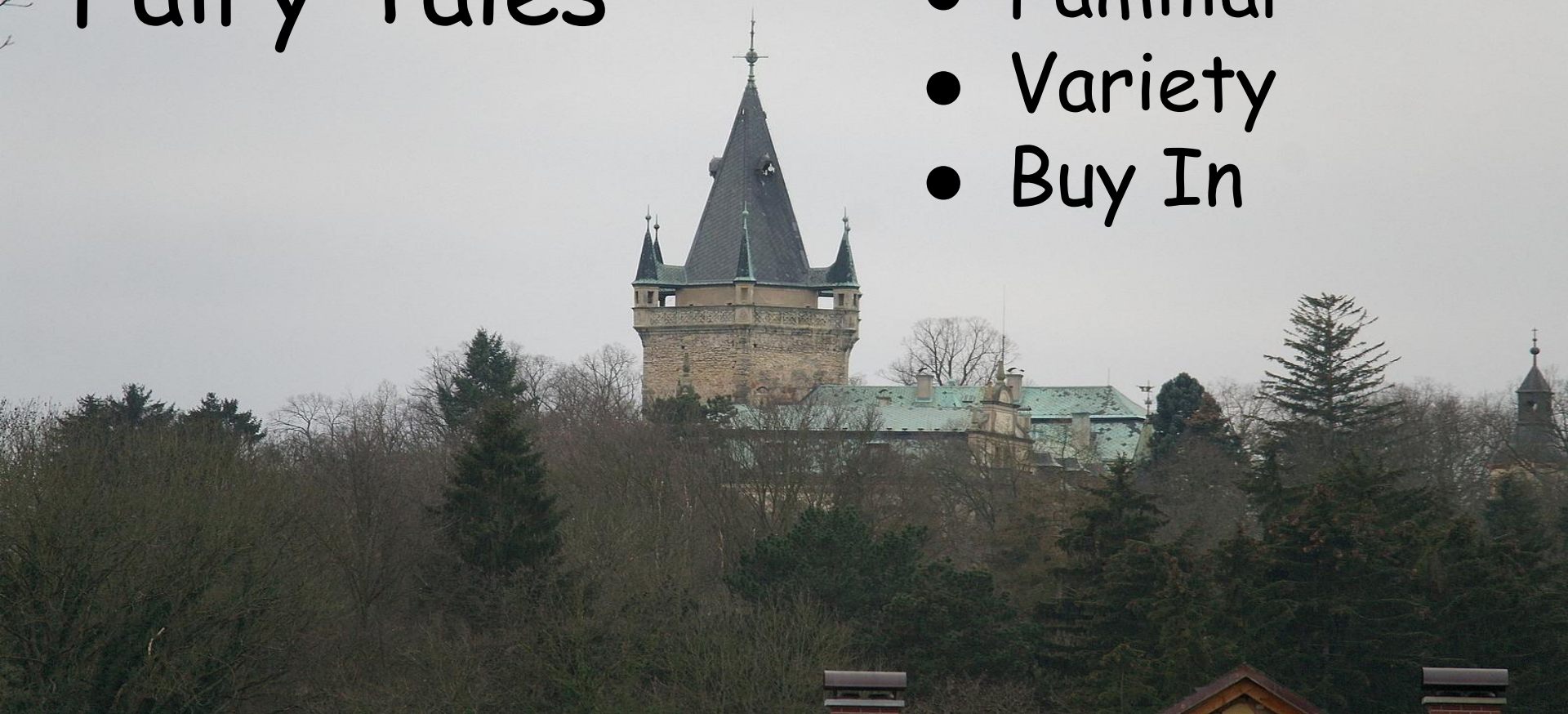
VARIABLES:

- We could turn it into a play.
- We could use legos to turn it into a sculpture.
- Turn it into a poem
- We could use movement to turn it into a dance

We will use markers and paper to turn it into a stop motion animation.

Fairy Tales

- Familiar
- Variety
- Buy In



STOP MOTION VS THE STORY

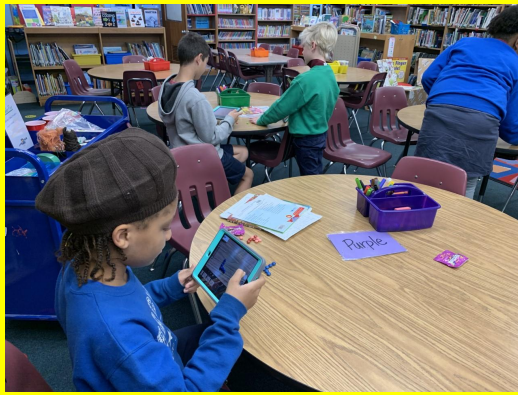
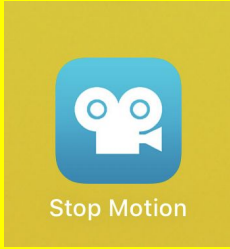
Story - all words and sometimes pictures.

Stop Motion - images and movement.

Question: How will we tell the story without the words?

Presenting the same content in a different way. Changing the structure to receive the information in a different way.

Free Exploration



DECONSTRUCTION



What does the audience HAVE to know? (Details vs key details)

Scene 1: meet the characters, discover the setting and learn the problem

Scene 2: develop a plan, get a posse and start executing, confront the problem

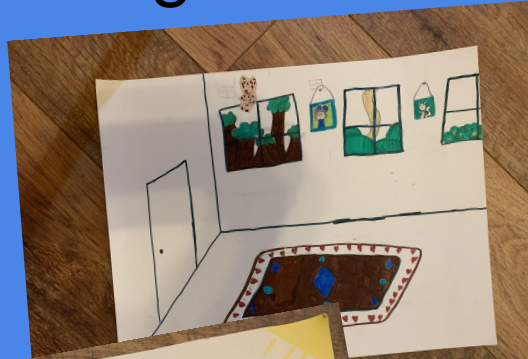
Scene 3: resolution of the problem

Setting/Characters/Action - How will we show that?

What HAS to happen for each scene to end.

We are teaching formula

Creating the Set...



“Mrs Manning it is like we are using the Engineering Design Process...”

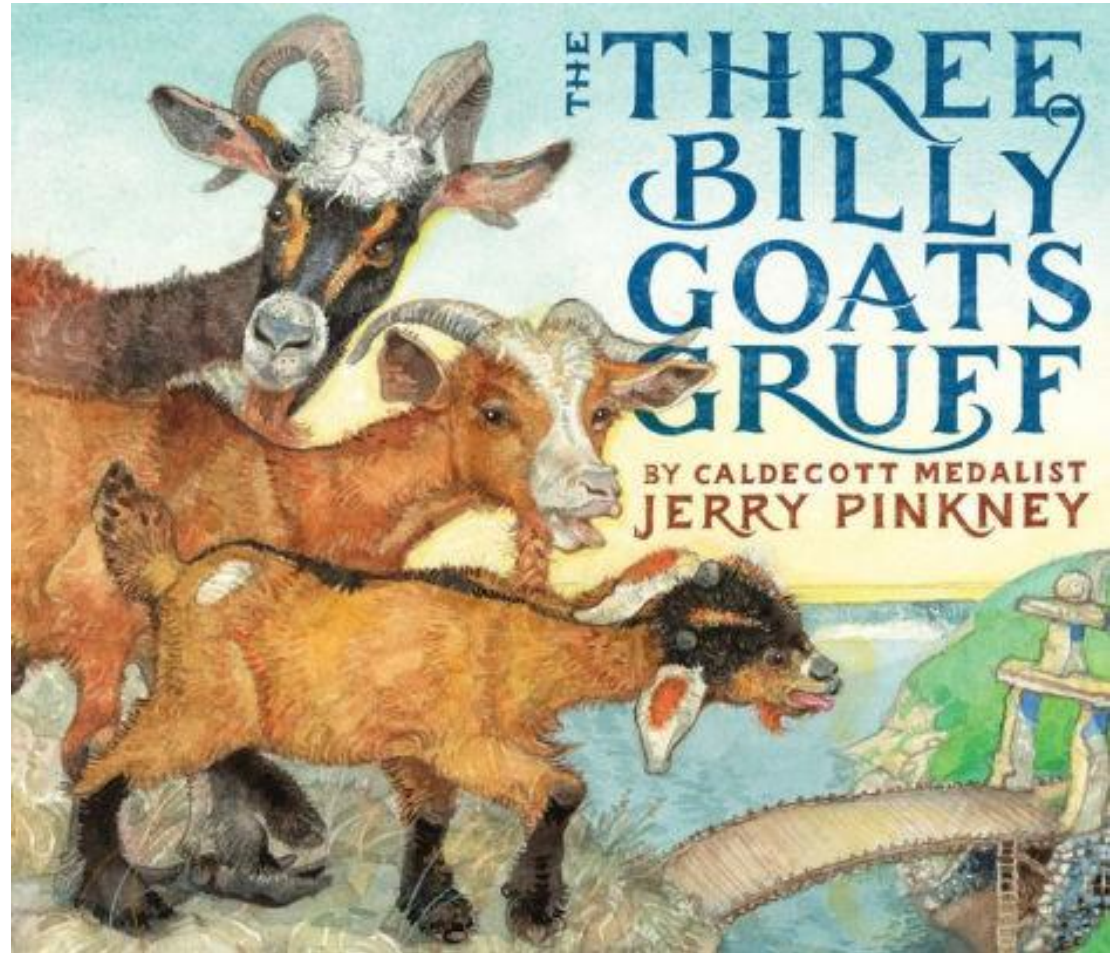


Creating solutions by repurposing what you already have.



THE FINAL PRODUCT

Let's apply
what we have
learned and
make a
movie.



But wait there's more!!!

BRCVPA

Home Shadow Puppets

Shadow Puppets



Research



Construction



Practice



Staging



Library Bookends Popsicle B...

The Popsicle Boy

Members of the Library Bookends enjoyed selecting and performing this funny take on *The Gingerbread Boy*. We hope you enjoy their performance.

LIBRARY

HOME

SHENANIGANS

FIND A BOOK

PRIMARY SOURCES

FIND INFORMATION

LYRC

ACCELERATED READER

BEANSTACK

CLUBS

MEET THE LIBRARIAN

AUTHOR VISIT

SHENANIGANS IN THE LIBRARY

SO MANY THINGS ARE HAPPENING IN THE LIBRARY. WE ARE EXPLORING ALL ASPECTS OF THE LIBRARY AND HAVING BIG FUN. THE LIBRARY IS A PLACE OF EXPLORATION, CREATION AND RELAXATION WITH A GOOD BOOK. CHECK OUT JUST WHAT WE HAVE BEEN UP TO.



STOP MOTION IN THE LIBRARY

CHALLENGES, MAKER TIME AND MORE!



LYRC nominated book: *Crown*. Students explored what they see as their "crown."

The best laid schemes...

Second semester 5th grade project was a collaboration with the ELA teacher. ELA classes were reading Chinese Cinderella. In the library we were going to break into small groups with each group designing their own original retelling with a twist. These retellings would be reconstructed as a shadow puppet play. The 5th grade groups would then perform these plays for their kindergarten buddies.

Living Literature was starting to develop a podcast based on a, “what if,” platform. Students would discuss the question, “What if _____?” as it applies to endings or situations in stories that they would like to change.

EBR Librarian's Meeting April 8, 2020

meet.google.com/low-guce-mki

Frontline - Sign In Facebook

Kristen Manning is presenting

Charlene Gernon and 11 more

03/17 2:54 PM

Full STEAM Ahead

Exploring the Engineering Design Process Through Story Deconstruction & Reengineering

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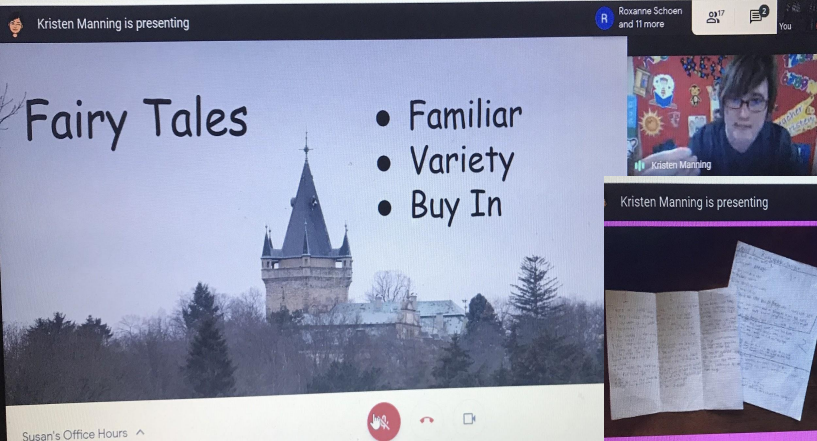
Kristen Manning is presenting

Roxanne Schoen and 11 more

03/17 2:54 PM

Fairy Tales

- Familiar
- Variety
- Buy In



Kristen Manning is presenting

People (17)

Add people

Susan Gauthier (You)

Amy Darbar

Arica Lavigne

Brittanie Supan

Cassandra Carter-Jones

Charlene Gernon

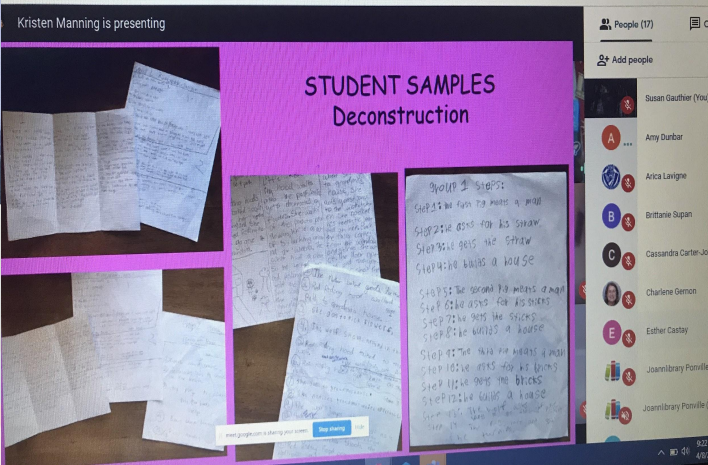
Esther Castay

Joanlibary Potville

Joanlibary Potville

STUDENT SAMPLES

Deconstruction



Handwritten notes on the slide include:

- STEP 1: She is the first to meet a man.
- STEP 2: She is the first to see a man.
- STEP 3: She is the first to see a man.
- STEP 4: She is the first to see a man.
- STEP 5: She is the first to see a man.
- STEP 6: She is the first to see a man.
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- STEP 100: She is the first to see a man.

We have explored the EDP in two distinct ways.

1. Through the deconstruction and redesign of the story.
2. Through the production/performance process.

This project (Stop Motion) can be applied to anything, not just stories. The "production" can be the production of a process.

This could be a word problem.

This could be the explanation of the lifecycle of a plant.

The possibilities are limitless.

This works in any classroom any grade level, any content.

