

storybook **STEM** THE GREAT EGGSCAPE

GREAT EGGSCAPE

The egg wants to escape!
Create a maze and use magnets to help your egg get from the beginning to the end of the maze.

YOU WILL NEED:

- 1 plastic egg
- 1 paper plates
- 1 string
- 1 paper magnet



HIDE AND SEEK

The eggs want to play a game of hide and seek!
Create a design that will camouflage an egg.

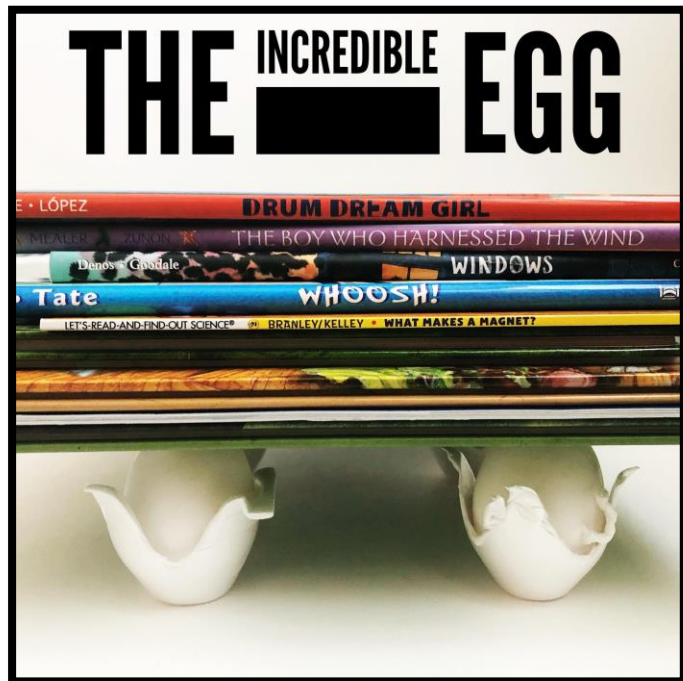
YOU WILL NEED:

- 1 plastic egg
- 2 paper plates
- 2 coffee filters
- watercolor paint set
- and brush
- small cup of water
- 2 wiggly eyes (OPTIONAL)



CREATED BY
BROOKE BROWN
& KATIE KING

3 STEM CHALLENGES



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LET'S EXPLORE ANIMAL ADAPTATIONS!

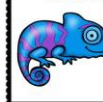
CAMOUFLAGE



ANIMAL TRICKSTERS



CHAMELEONS



WINTER COATS



HIDE

Ways that Animals Protect Themselves



GREAT EGGSCAPE

The egg wants to escape!

Create a maze and use magnets to help your egg get from the beginning to the end of the maze.



YOU WILL NEED:

- 1 plastic egg
- 1 paper plates
- markers
- 2 small ceramic magnets

HIDE AND SEEK

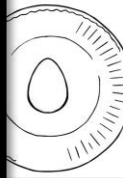
The Great Eggescape

NAME:

What are some animals that use camouflage?

BLUEPRINT

Draw a picture of your egg in its "habitat."



LET'S EXPLORE MAGNETS!

FUN WITH MAGNETS



MAGNETISM



MAGNET EXPERIMENTS



COMPASSES



HIDE AND SEEK

CAMOUFLAGE

an animal's natural coloring

DEFENSE



the act of protecting oneself or avoiding attack

MIMICRY



when one animal copies another animal in order to protect itself from predators

GREAT EGGSCAPE

How Magnets Work

Magnetic Materials

Things That Use Magnets

GREAT EGGS

MAGNETIC



a physical force that attracts objects together by using a magnetic field

MAGNETS TELL



the two points of magnetic force on a magnet (North and South) that cause magnets to attract or repel

REPEL



to push away by using magnetic forces LIKE poles

GREAT EGGSCAPE

MY BLUEPRINT

Draw a picture of your maze. Draw a START at the beginning and an X at the end.

Magnets with OPPOSITE poles will:

N → **S**
ATTRACT REPEL

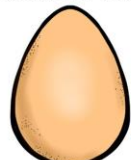
Magnets with LIKE poles will:

N ← **N** → **S**
ATTRACT REPEL

THE INCREDIBLE EGG

How strong is a chicken egg?

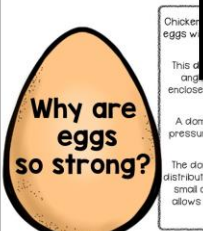
Build the heaviest possible tower of books that uses eggs as the foundation.



YOU WILL NEED:

- 4 eggs
- 4 egg carton sections
- picture books

THE INCREDIBLE EGG



Why are eggs so strong?

Chicken eggs are designed to enclose a large amount of space without any columns to hold it up. A dome distributes the weight and the pressure applied on the top evenly to the entire structure. The dome shape of each end of an egg distributes all weight evenly and with only a small amount of stress and strain. This allows it to hold a significant amount of weight without breaking.

EXPLORE EGGS!

IF EGGS



IT STARTS WITH AN EGG



AMAZING EGG EXPERIMENTS



CHICKENS



THE INCREDIBLE EGG

PROTECT



to keep safe from harm or injury

INSTINCT



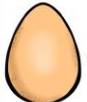
a fixed pattern of behavior in animals

DOMES



a curved structure with no angles or corners

WEIGHT DISTRIBUTION



the amount of weight and pressure that is applied to an entire structure

Name: Brie

You came from an EGG!



Inside my egg... is a baby frog, but when it comes out it will be a tadpole.

Kyrie



Oviparous Animals

Adjectives

Adjectives are words that **describe** a noun.



- colorful
- fragile
- bright
- smooth

You came from an EGG!

Match the egg to the animal it came from.

1. If I see a snake, I'll know it's from an egg.

2. Believe it or not, most of us are from eggs!

3. I know! I saw a snake!

4. I know! I saw a snake!

5. I know! I saw a snake!

Name: Brendan

Shel & Major Events

What changes did he make to his story?

B Meeting the Dozen!

M Finding the eggs!

E Finding the eggs!


In the beginning he was nervous!

In the middle he was in control!

Adjectives

 <ul style="list-style-type: none"> peaceful hot calm tropical colorful sandy 	 <ul style="list-style-type: none"> gloomy cold rainy gray dreary wet
 <ul style="list-style-type: none"> silly happy funny together young wild 	 <ul style="list-style-type: none"> colorful alive busy bustling bright loud


What was the beginning?



The Other Eggs

Describing Characters

We can use characters words, thoughts, and actions to help us **describe** a character.




Characters & Major Events



Characters can change throughout a book. **Challenges** can cause people to change for the better or worse. You may notice differences in their **emotions**, **relationships**, or **personality**.

Oviparous Animals

Animals that lay eggs. This is not limited to birds! Most fish, reptiles, and amphibians lay eggs too.



DESCRIBING Characters

SHEL

- *nervous (breathing into a bag)
- *worried (they should be back by now!)
- *observant (knows exact time)

Other Eggs

- *carefree (not worried about time!)
- *silly (making jokes about potatoes)
- *adventurous (taking off in the shore!)

E

L

A