

10
common
core
Aligned
organizers
and
prompts

STEM

Writing

EXTENSIONS

for

ANY

challenge

Created by
Brooke
Brown



Fascinating Facts

1 Use the "Fascinating Facts" flipbook and informational nonfiction books to research interesting facts about your STEM structure in real life. Illustrate your structure on the back of your flipbook.

2 Write a report about your real life structure to share the facts that you learned.



Friendly Letter

1 Use the "Friendly Letter" flipbook to organize your ideas. Tell your reader about the STEM project you created. Explain how you created it, how it works, and share your favorite part. Illustrate your project on the back.

2 Write a friendly letter to a friend or family member about your STEM project.



Step by Step

1 Use the "Step by Step" flipbook to organize your ideas. List the needed materials and FIVE directions to explain how to build your creation. Illustrate your creation on the back of the flipbook.

2 Write a "How To" paragraph that explains how to build your creation. Remember to write your paragraph in sequence, use transition words, and include plenty of details.



Describe it!

1 Use the "Describe it!" flipbook to organize your ideas. Write as many details and descriptive words as possible about how your STEM project looks, feels, and sounds. Illustrate your project on the back of your flipbook.

2 Write a detailed paragraph that describes your STEM project. Try to "paint a picture" with your words.



My opinions

1 Use the "My Opinions" flipbook to write your opinions about your STEM challenge. For each opinion, write TWO reasons or examples to explain why you feel that way.

2 Write a persuasive paragraph about your STEM challenge using opinions, reasons, and examples.



10 Writing Extensions

Before & After

1 Use the "Before & After" flipbook to organize your thoughts. Write your predictions for your STEM challenge BEFORE you begin construction. Then, write what actually happened AFTER construction. Illustrate the "before" and "after" on the back of your flipbook.

2 Write TWO paragraphs to summarize your predictions for your challenges and what actually happened.



comparing challenges

1 Use the "Comparing Challenges" flipbook to write at least 5 similarities and differences between two different STEM challenges.

2 Write two paragraphs about your STEM challenges, one to compare the similarities between the two challenges, and one to contrast the differences.



passing the Test

1 Use the "Passing the Test" flipbook to describe each test for your STEM challenge. Also, explain the improvements that you made to your project after each test.

2 Write a paragraph that explains each test in sequence. Don't forget to write about the improvements you made and if they worked well or did not work well.



Imagine it!

1 Use the "Imagine it!" flipbook to organize your ideas for an imaginative (fiction) story. Your STEM creation must be included within an important element in the story, such as the setting, problem, or solution. Illustrate the beginning, middle, and end on the back of the flipbook.

2 Write an imaginative story that involves your STEM creation. Your story must include a beginning, middle, and end.



wrapping it up

1 Use the "Wrapping it Up" flipbook to reflect on your STEM challenge. Write about what went well, what didn't go well, and how you would improve the challenge if you did it again.

2 Write a paragraph to reflect on the successes and struggles with your STEM challenge.



Step by Step

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Write the materials and 5 directions for how to build your creation underneath the flaps.
On the back of the Flipbook, illustrate your creation.

How to Build

Materials

First

Next

Then

After That

Finally

Name: _____

HOW TO BUILD:

Before & After

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Write your predictions for your STEAM challenge, write your predictions.
After completing your STEAM challenge, write what actually happened.
On the back of the Flipbook, illustrate your predictions and what actually happened.

Before & After:

BEFORE

AFTER

Name: _____

BEFORE

What do you predict might happen?
What do you expect?
What do you think might be challenging?

AFTER

What actually happened?
Were your predictions correct or incorrect?
What surprised you?

Imagine it!

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Write the story elements for an imaginative story underneath each flap.
The STEAM challenge will be related to one or more of the story elements.
On the back of the Flipbook, illustrate the beginning, middle, and end of your story.

Imagine it!

(Story Title)

BEGINNING

MIDDLE

END

Name: _____

Imagine it:

Characters

Setting

Problem

Turning Point

Solution

passing the Test

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Underneath the flaps, explain the results of each test of your STEAM challenge and the improvements that you made after each test.
On the back of the Flipbook, illustrate each test from your challenge.

passing the Test

TEST 1

TEST 2

TEST 3

Name: _____

passing the test:

Test 1

Improvements

Test 2

Improvements

Test 3

Improvements

Fascinating Facts

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Research your STEAM challenge using informational nonfiction books, then write 6 facts underneath the flaps.
On the back of the Flipbook, illustrate this structure.

Fascinating Facts about

Fact 1

Fact 2

Fact 3

Fact 4

Fact 5

Fact 6

Name: _____

FASCINATING FACTS:

Prewriting Organizers

My opinions

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Write your opinions about your STEAM challenge underneath each flap.
Don't forget to add two supporting reasons for each opinion.
On the back of the Flipbook, illustrate your STEAM project.

My opinions about

What was your favorite part about the challenge?
Give 2 reasons to explain why.

What was easiest about the challenge?
Give 2 reasons to explain why.

What was most challenging?
Give 2 reasons to explain why.

Name: _____

My opinions:

Friendly Letter

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Write ideas for your friendly letter underneath each flap.
On the back of the Flipbook, illustrate your STEAM project.

Friendly Letter

Who I'm Writing to

What I Created

How I Created it

How it Works

My Favorite Part

Name: _____

Friendly Letter:

Describe it!

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Write as many details and descriptive words possible about how your project looks, feels, and sounds.
On the back of the Flipbook, illustrate your STEAM project.

Describe it!

How it Looks

How it Feels

How it Sounds

Name: _____

Describe it:

wrapping it up

Cut out the Flipbook along the outside box and cut apart the flaps on the solid lines.
Fold the Flipbook in half.
Underneath the flaps, write about what went well during your STEAM challenge, what didn't go well, and what you would do differently if you completed the challenge again.
On the back of the Flipbook, illustrate your project.

wrapping it up:

What Went Well

What Didn't Go Well

What I Would Change

Name: _____

wrapping it up:

[illegible][illegible]

Imagine it!


By: _____



[illegible]

Describe it!

BY: _____



	Describe It! by: _____ 	
About 		

My opinions about


By: _____

Friendly Letter

Friendly Letter

_____ date _____

dear: _____



closing
signature

BEFORE

B _____
BY: _____

BEFORE & AFTER

By: _____

BEFORE

AFTER

Imagine it!

By: _____

passing the Test

By: _____

TEST 1

TEST 2

TEST 3

CO

[illegible]

comparing challenges

By: _____




Before & After

By: _____

Before & After

By: _____



[illegible]

passing the test

by: _____



challenges

[illegible]

Friendly Letter

To _____
From _____
Subject _____

By: _____



comparing challenges

_____ (name)


by: _____



wrapping it up

and _____

by: _____



Publishing Templates