

Force and Motion

When force is applied to an object, it causes it to move. For example, when a baseball bat hits a baseball that was traveling toward the batter, it puts force on it, causing it to change direct

the bat.

Force can also change the speed player's cleat connects with a f makes it through the field goal. the kick, the ball may make it o more or less force is and

Force and Motion

Motion is happening all around us. Try standing on the corner of a busy city observe what you see. Here are some things your eyes may hone in at what's happening around them; cars driving by honking their ng up to a bus stop to unload passengers, and people hurrying estinations. All of these things involve motion. Motion is something from one place to another, and it often consists

Force and Motion

Name:

Force and Motion

Select the word or phrase from the paragraph that DOES NOT help the reader understand the meaning of the word observe.

- a. what you see
- b. eyes may hone in
- c. look what's happening
- d. busy city street

What evidence does the author provide to su

- a. force can also change the speed
- objects must be pushed or pulle
- when force is applied to an obj
- objects can even change shape

Where in the text does the author show speed influence the speed at which son

- a. Paragraph 2
- b. Paragraph 3
- c. Paragraph 4
- d. Paragraph 5

What is the main idea of paragra

- a. objects remain movin
- the law of inertia is
- the law of mass an

Annotate the

Number the paragraphs

and

- Underline *important* statements
- Circle unknown words

Name:

What does the word applied mean? a. heard

- put near
 - c. made
 - d. placed on

What is the main idea of paragraph ?? a things are pushed or pulled to move watching g busy city streets can help you to we can see motion happening all around us

- d. buses unload passengers, which is a type o
- Which of the following is NOT a way that force influ

a. change in shape

- change in speed
 - ability to move

What is the logical connection between motion or a. both are used to help an object stop motion and force both make an obje both are used while objects are ma

- There is no logical development.

-d developed mean?

This resource includes:

- Teacher Tips
- Questions to Ask Students
- Student Bookmarks:
 - Close Reading Steps
 - Annotate/Mark the Text
- Informational Text: Forces and Motion
- 10 Multiple Choice Questions
- 7 Graphic Organizers
- Answer Key



Force and Motion

When force is applied to an object, it causes it to move. For example, when a baseball bat hits a baseball that was traveling toward the batter, it puts force

on it, causing it to change direction

the bat.

Force can also change the speed o player's cleat connects with a foo makes it through the field goal. D the kick, the ball may make it or more or less force is applied.

Objects can even change shape q pushed your hand on a blown-up balloon, it shifts and no longer

Fun Facts

- Isaac Newton presented h Mathematica Philosophiae
 - Force exists even when a a table has force, as doe
 - To determine the amount measurement of Newton

Force and Motion

What is Motion?

Motion is happening all around us. Try standing on the corner of a busy city street and observe what you see. Here are some things your eyes may hone in on as they look at what's happening around them; cars driving by honking their horns, buses rolling up to a bus stop to unload passengers, and people hurrying quickly to their destinations. All of these things involve motion. Motion is and another, and it often consists defined as moving something of things being pushed or p Close Reading

Laws of Motion

Sir Isaac Newton develope help us to understand how

The first law of motion is when something is moving The only way to change

The second that depen further or

The third every action reacts. N

What is Force?

Force builds off of m These are referred force. Force can mal their shape. Below a

Steps

- Read the text
- **Annotate** the text

these laws to

w states that sting, it rests. self upon it.

This law states

unknown

Chloe Campbell





Name:

What does the word applied mean?

- a. heard
- put near
- made
- placed on

- What is the main idea of paragraph (? a. things are pushed or pulled to move
 - watching g busy city streets can help you we can see motion happening all around u
 - d. buses unload passengers, which is a type

Which of the following is NOT a way that force infl

- a. change in shape
 - change in speed
 - ability to move

 - ability to rest

What is the logical connection between motion of both are used to help an object sto

and force both make an ob

Name:

Force and Motion

- Select the word or phrase from the paragraph that DOES NOT help the reader understand the meaning of the word observe.
 - a. what you see
 - b. eyes may hone in
 - c. look what's happening
 - d. busy city street
- 2. What evidence does the author provide to support the idea that force creates motion?
 - a. force can also change the speed of an object
 - b. objects must be pushed or pulled to have motion
 - when force is applied to an object, it causes that object to move
 - d. objects can even change shape due to force
- 3. Where in the text does the author show evidence to support the claim that weight and speed influence the speed at which something travels?
 - a. Paragraph 2
 - b. Paragraph 3
 - c. Paragraph 4
 - d. Paragraph 5
- 4. What is the main idea of paragraph 3?
 - a. objects remain moving or not moving unless force is applied
 - the law of inertia is the first law of motion
 - the law of mass and acceleration is the second law of motion
 - d. Newton developed three laws of motion.
- 5. Which of the following details is most important to the topic of how force can change the speed of an object?
 - a. depending on the amount of force put behind the kick, the ball may make it or may not
 - b. as more or less force is applied, an object's speed will change
 - when a football player's cleat connects with a football
 - d. It spirals through the air and hopefully makes it through the field goal

Close Reading

Close Reading: A reading strategy that is used to comprehend and analyze a text closely. Students will typically read the text at least twice for comprehension, details, analysis, and deep questioning of the text's purpose and meaning.

Steps for Close Reading:

- I. Read the Text
- 2. Mark Up the Text or Annotate the Text
- 3. Read the Text Again
- 4. Define Unknown Words
- 5. Read the Text Again
- 6. Respond to Reading





Includes:

- Teacher Tips
- Questions to Ask Students
- Close Reading Steps Bookmark
 - Version with "Mark the text"
 - Version with "Annotate the text"
- Steps to "Mark the Text" Bookmark
- Steps to "Annotate the Text" Bookmark
- Informational Text: The
- IO Multiple Choice Questi
- 7 Graphia Opagnizana

Questions to Ask Students

- What is the text mostly about?
- Who is the audience for this text?
- What's is the writer's purpose of this text?
- What's your favorite part of the passage?
- What words are new to you? What do you think the words mean?
- What detail stands out to you?
- What questions do you now have about the topic?
- If you can ask the author 2 questions, what would yo ask them?
- In this paragraph, what is the author saying?
- What is the structure of the text? How does it help

Teacher Tips & Suggestions

Teacher Tips

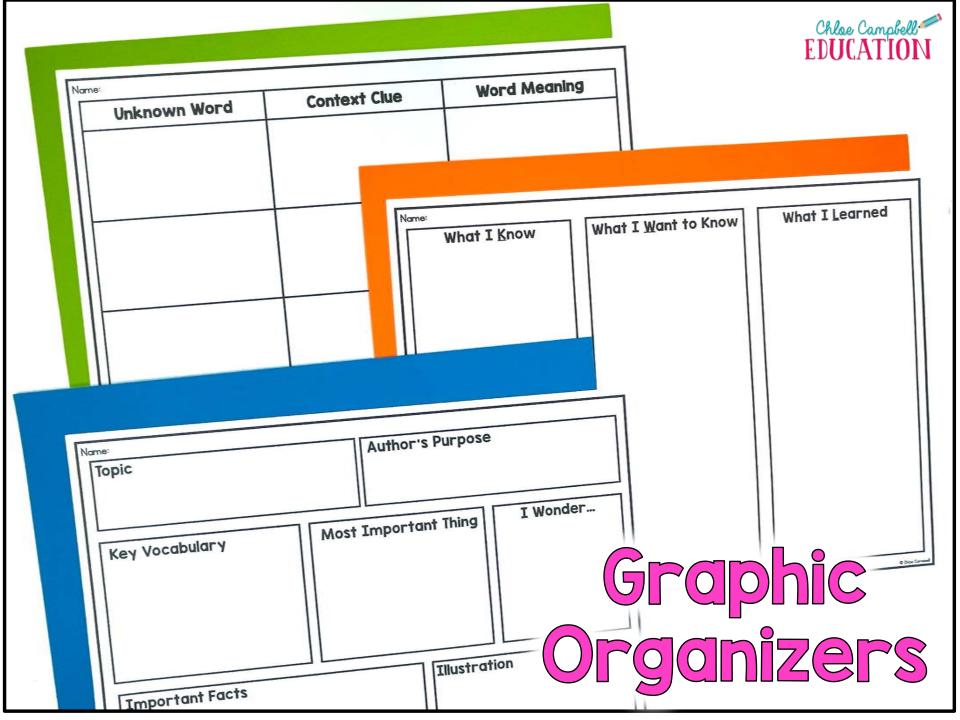
Close reading: A reading strategy that is used to comprehend and analyze a text closely. Students will typically read the text at least twice for comprehension, details, analysis, and deep questioning of the text's purpose and meaning.

- Read the Text: When students read the text for the first time, they are reading just to identify what the passage is mostly about. The first read is surface level and allows the students to understand the gist of the text.
- 2. Mark Up the Text or Annotate the Text: Encourage students to use their annotation bookmarks (provided below) to make notes directly on the text. Students can write in the margins, use sticky notes to make notes, use color coding. You can even slip the text inside a dry-erase pocket and encourage students to use dry-erase markers to mark up the text.
- 3. Read the Text Again: If the teacher is working with the students for this, the teacher can read the text aloud this time. Model think-alouds and use expression while you read. If students are working with partners in a station, encourage them to each read a paragraph then switch readers.
- 4. Define Unknown Words: During this step, invite students to circle any unknown or unfamiliar words. Use the provided graphic organizer to select 4-5 unknown words and work to identify the meaning of each word.
- Read the Text Again: With this third time reading the text, encourage the students to read the passage independently.
- 6. Respond to Reading: Students will now use the text to answer the 10

Graphic Organizers

- Main Ideas with Text Evidence
- Central Ideas with Text Evidence
- Central Ideas with Details
- Main Idea, Details, Conclusion
- KWL: What I Know, What I Want to Know, What I Learned
- Overview: Topic, Author's Purpose, Key Vocabulary, Most Important Thing, I Wonder, Important Facts, Illustration
- Context Clues (3 Versions: 3 words, 4 words, 5 words)
- Arthropods

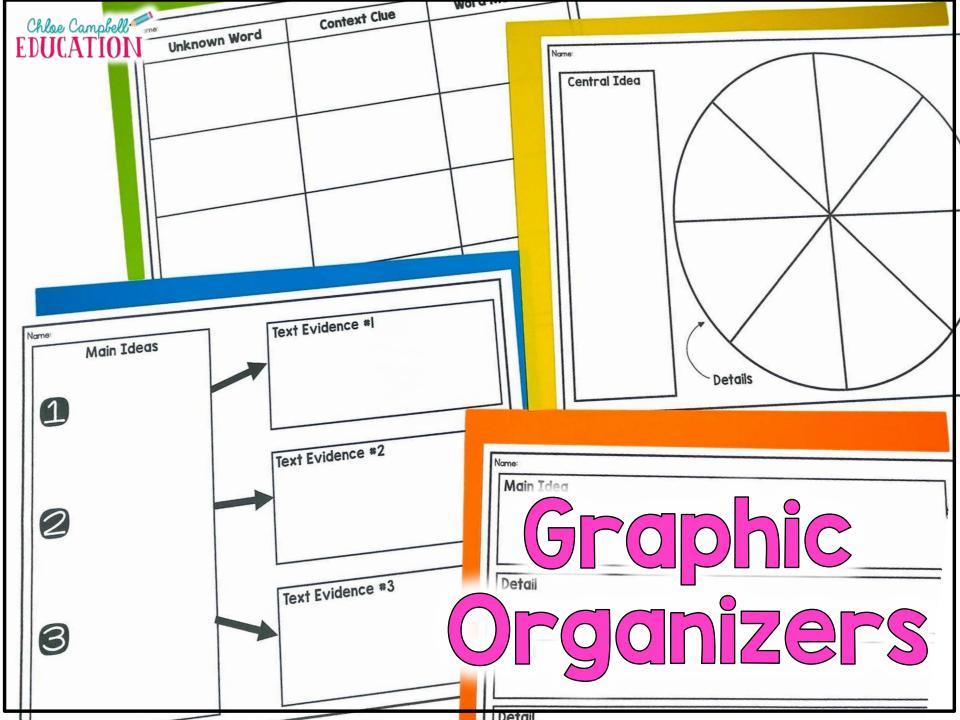




Ideas for Use

- Science or ELA Stations
- Whole Group Instruction
- Partner Practice
- Guided Reading Groups
- Substitute Plans
- Send home to practice
- ELA Work Stations or Centers
- Assessment





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