

What Dissolves in Water?

Stirring

The first and most obvious way to dissolve a solid into water is by stirring. Pour your solid into your liquid, grab a large spoon, and stir until you can no longer see the solid. It's still there, but you can no lo dissolved

Water Temperature

Looking to dissolve a solid faster? Using hot water w process. Adding a solid to boiling water is the fastes Using cold water will make it take longer.

What Dissolves in Water?

Have you ever tried to dissolve something in the water? The process of dissolving occurs when a solid is added to a liquid. As they are combined, the solid breaks down and becomes one with the liquid. This new substance is called

Materials that successfully combine with a liquid are referred to as soluble materials. Examples of soluble materials include sugar and salt. Have you ever watched someone make lemonade? Sugar is added to water along with lemon ar is still there; we

What Dissolves in Water?

- 6. What does the word combine mean?
- 7. Each of the

Name:

- b.

- - a stirrir
 - water
 - putting decreasi
- What is the logical cor
 - a. they are a
 - they all are
 - they all are
 - d. they all are the
- 10. What does the word produ

er-insoluble, Choose

deter

- a. coming together to create one thing
- separating to create different things
- brushing your hair
- d. filling something
- Annotate the
 - that shows
 - Number the paragraphs
 - d. salt
- Underline 8. Which of the foll
 - important
 - statements
 - Circle unknown
 - Question? Confusing?

Name:

see cuit alp

What Dissolves in Water?

- Select the word or phrase from the paragraph that helps the reader understand the meaning of the word dissolve.
 - as they are combined
 - when a solid breaks down and becomes one with the liquid
 - the new substance is called a solution
 - dissolve something in the water
- 2 What example does the author use to support the idea of decreasing an object's surface volume to help it dissolve quicker?
 - a. Smaller materials dissolve faster.
 - Fine-grain sugar, for instance, will dissolve much faster.
 - Consider breaking sugar cubes into smaller pieces.
 - d. Pour a little olive oil into a cup of water.
- Where in the text does the author show evidence to support the claim that sugar is a soluble material?
 - a. Paragraph 2
 - b. Paragraph 3
 - c. Paragraph 4
 - d. Paragraph 5
- 4. What is the main idea of paragraph 4? a. Materials can be dissolved in different liquids.
 - Same liquids are water-soluble.

- nown as and sand. Think he strength of and at the ell with water
- rterials can alled waterfee.
- ome: ou know of
- t not all al ways to

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This resource includes:

- Teacher Tips
- Questions to Ask Students
- Student Bookmarks:
 - Close Reading Steps
 - Annotate/Mark the Text
- Informational Text: What Dissolves in Water?
- 10 Multiple Choice Questions
- 7 Graphic Organizers
- Answer Key



What Dissolves in Water?

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Fun

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Looking to dissolve a solid faster? Using hot water will s process. Adding a solid to boiling water is the fastest v

Annotate the Text

Number the squ paragraphs bre dec

> Underline important statements

Circle unknown words

> Question? Confusing?

Interesting!

What Dissolves in Water?

Have you ever tried to dissolve something in the water? The process of dissolving occurs when a solid is added to a liquid. As they are combined, the solid breaks down and becomes one with the liquid. This new substance is called

Materials that successfully combine with a liquid are referred to as soluble materials. Examples of soluble materials include sugar and salt. Have you ever watched someone make lemonade? Sugar is added to water along with lemon juice. Simply stir the sugar in, and it will dissolve. The sugar is still there; we

Some materials will not dissolve in a liquid. These materials are known as insoluble materials. Examples of insoluble materials include flour and sand. Think about the coastline where the ocean and sand meet. Even with the strength of the tide, the sand does not dissolve. It can exist within the water and at the bottom of the ocean's surface. Some materials do not interact well with water molecules and, therefore, will not dissolve in a liquid

Soluble Materials



s that



vinegar, and lemon juice. Think also about the products you use at home; shampoo

any other How to D How do w

dissolve, so how do we test it to see? There are several ways to dissolve a solid into a liquid. Below we will dis





What Dissolves in Water?

Name:

- What does the word combine mean? a. coming together to create one
 - separating to create different
 - brushing your hair
 - d. filling something up
 - Each of the following materials is water that shows the correct designation.
 - a. oil and sugar: soluble; coff salt and sugar: soluble; oi
 - oil and sand: soluble; salt
 - salt and coffee: soluble
 - Which of the following is NOT a w
 - a. stirring
 - water temperature
 - putting it in the fre reasing the obj

Name:

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- Where in the text does the author show evidence to support the claim that sugar is a
- Paragraph 2
- Paragraph 3
 - Paragraph 4
- Paragraph 5
- What is the main idea of paragraph 4?
 - Materials can be dissolved in different liquids.
 - Some liquids are water-soluble.
 - Water-soluble materials include coffee and vinegar.
 - Water-soluble materials can be dissolved in water easily.

of the following details is most important to the topic of why some materials will olve in a liquid?

- flour and sand are examples of insoluble materials
- some materials do not interact well with water males of



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 Graphic Opagnizano

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

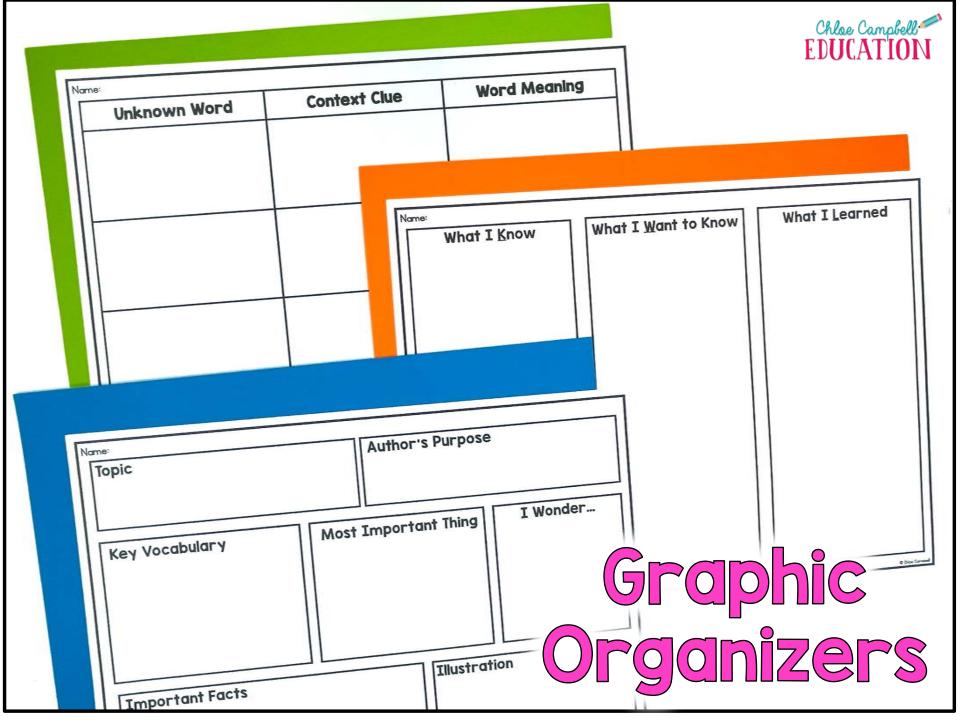
Close reading: A reading strategy that is used to comprehend and analyze a text closely. Students will typically read the text at least twice for comprehension, details, analysis, and deep questioning of the text's purpose and meaning.

- 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

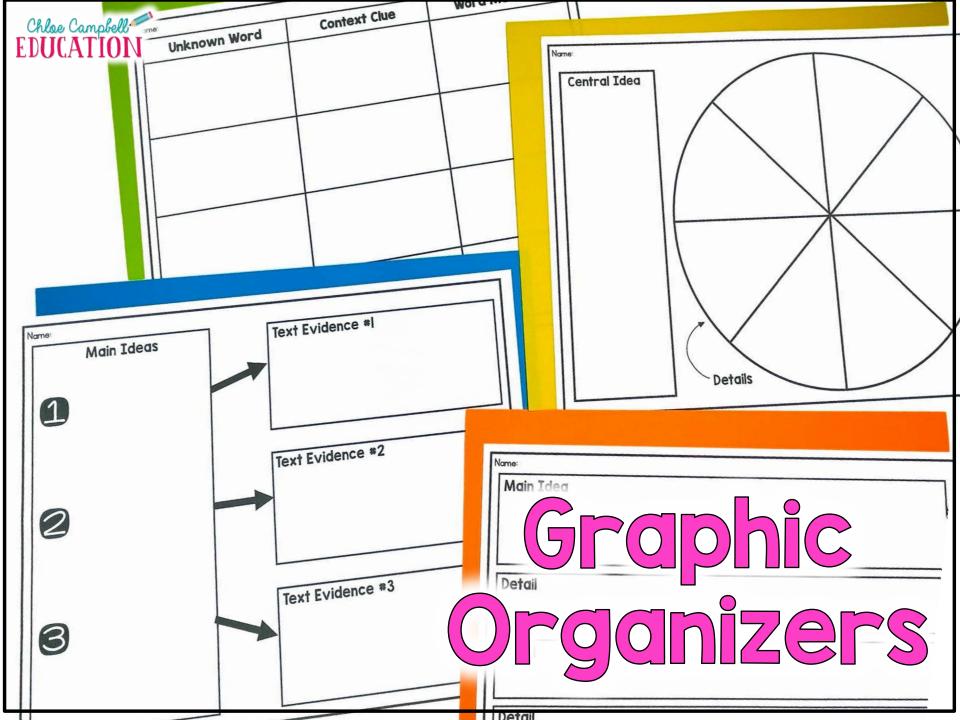




Ideas for Use

- 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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