

Atomic Theory

Since Dalton's Atomic Theory was discovered, scientists have made a few changes. Instead of believing that atoms are the smallest particle of matter, scientists now realize that atoms are made up of even smaller protons, neutrons, and electrons. They also know that differe exist. These atoms differ by weight and are referred to as i scientists today know that atoms can be destroyed, unlike D Matter is a part of everything. From pencils, pens, bicycles, and airplanes, it Nuclear reactions can destroy atoms, while chemical reactic the updates in Dalton's Atomic Theory, his research was the chemistry's understanding of the atom.

Name: 6. What does the word investigating mean?	arch was the second puril of everything. From pencils, pens, bicycles, and a Philosopher Democritus wondered about this more the operator? The After some research is a second to a second the second the second to a second t	he Graat.
	Const	-red
La line for		
c. deciding	Atomic Ineory	atom.
L studying	 Select the word or phrase from the paragraph that helps the reader understand the meaning of the word indivisible. 	ch.
 Studying Studying Each of the following is a basic principle of Dalton's Atomic Theory exc Each of the following is a basic principle of Dalton's Atomic Theory exc Each of the following is a basic principle of Dalton's Atomic Theory exc 	a. everything contains atoms	ocritus
 Each of the following is a basic principle of pullows a. Atoms contain protons, neutrons, and electrons. 	b. atoms are the smallest particle of matter that exists	is of
 a. Atoms contain protons, neutrons, and same weight. b. Atoms of the same element have the same weight. 	c. atoms cannot be altered	ies
	d. this means they cannot be divided, created, or destroyed	e
 b. Alons of the actions of the actions. c. Everything contains atoms. d. Atoms can join together to form compounds. 		
d. Atoms can join logen a	2. What example does the author use to support the idea that scientists have changed	
Chattan Chattan	Dalton's Atomic Theory?	
8. How many atoms exist? a. Over 10	 a. Dalton's Atomic Theory is primarily still used today. b. Dalton's research was the foundation of elementation of the statement of	
a. Over 10 b. Over 100	 Dalton's research was the foundation of chemistry's understanding of the atom. 	
0	c. Scientists now realize that atoms are made up of even smaller parts.	
J Over 500	 d. Using all of this research, Dalton created the Atomic Theory. 	
Dultan's Atomic Theory and		be
q. What is the logical connection between Dalton's Atomic Theory and	3. Where in the text does the author show evidence to support the claim that Dalton's	
the 1800s?	research gave chemistry a basis for the atom?	
a. Dalton's theory was good then, and no charged b. Dalton's theory was good then, but now scientists dislik	a. Paragraph I b. Paragraph 2	
 b. Dalton's theory was good then, but now such as a construct of the construction of the construc	c. Paragraph 3	
c. Dalton's theory was not good, so submitted and the solution of the solution	d. Paragraph 4	
d. Dalton's theory was of have learned more.		
	4. What is the main idea of paragraph 3?	1
10. What does the word revisited mean?	a. Everything contains atoms.	1
	b. Dalton's Atomic Theory had three fundamental principles.	
to the loave something dione	 Two or more atoms together can form compounds. d. Dalton's research proved that atoms switch 	
c. to come back to something	d. Dalton's research proved that atoms exist.	

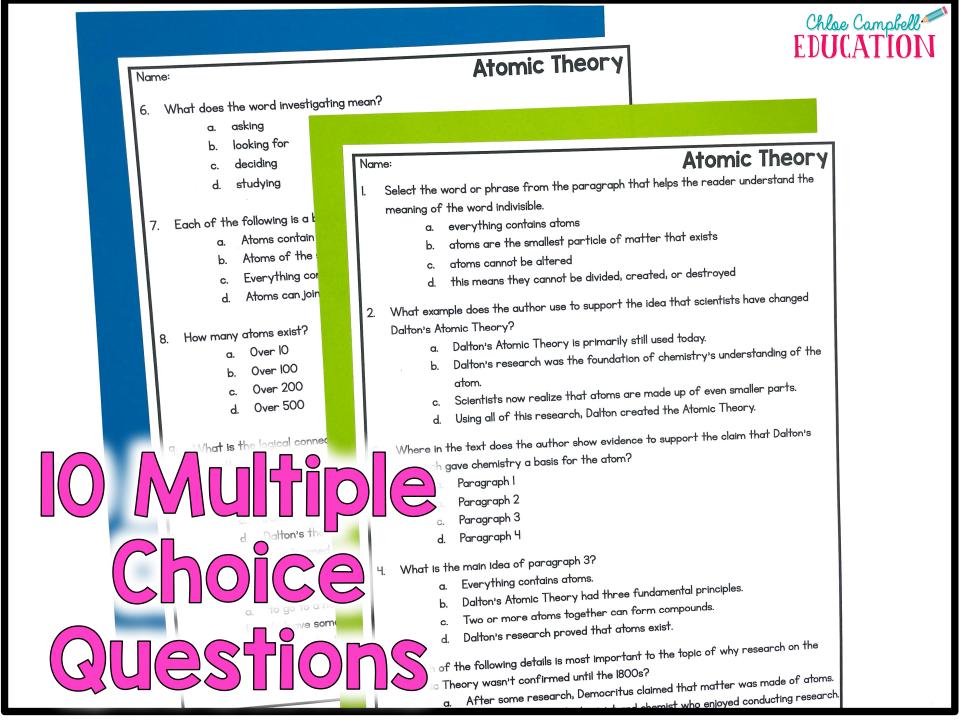
Atomic Theory

This resource includes:

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



Atomic Theory Since Dalton's Atomic Theory was discovered, scientists have made a few changes. Instead of believing that atoms are the smallest particle of matter, scientists now realize that atoms are made up of even smaller protons, neutrons, and electrons. They also know that differe exist. These atoms differ by weight and are referred to as i Atomic Theory scientists today know that atoms can be destroyed, unlike D_{C} Matter is a part of everything. From pencils, pens, bicycles, and airplanes, it Nuclear reactions can destroy atoms, while chemical reactic inhabits all of the objects in our world. What makes up matter? The Greek the updates in Dalton's Atomic Theory, his research was the Philosopher Democritus wondered about this more than 2000 years ago. chemistry's understanding of the atom After some research, he claimed that matter was made of atoms. However, unfortunately, no one took him seriously, and his ideas were dismissed. Annotate the Fun Fac Fast forward 2000 years later, and the idea of the atom was considered oms had an ir Eve Text again. In the 1800s, a man named John Dalton revisited the idea of the atom. hnology to l He was an English physicist and chemist who enjoyed conducting research. shou Number the year. So b During his research, John proved that atoms do exist, showing that Democritus was paragraphs Your was correct. Dalton determined that atoms existed from his close analysis of gases and compounds. When investigating gases, Dalton realized that gases const the univ Underline must consist of tiny particles that frequently move. This is why gases are Over important statements Dalton's Atomic Theory ing all of this research, Daltor Atomic Th Circle unknown /thi ins ns, whi the s words tered: are i sible. This means they cannot be divided, created, or destroyed. **Question?** 2 a**t contain the same ele**ment have th Confusing? th ar ma Interesting Chloe Campbell 3. The principles above combine to create Dath



Close Reading

<u>Close Reading</u>: 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



Chloe Campbell 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 ۲
- Informational Text: The
- 10 Multiple Choice Questi
- 7 Graphia Organizona

Questions to Ask Students

- What is the text mostly about? ۲
- 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? ۲
- What words are new to you? What do you think the ۲ words mean?
- What detail stands out to you? •
- What questions do you now have about the topic? ۲
- If you can ask the author 2 questions, what would yo ۲ ask them?
- In this paragraph, what is the author saying?
- What is the structure of the text? How does it help



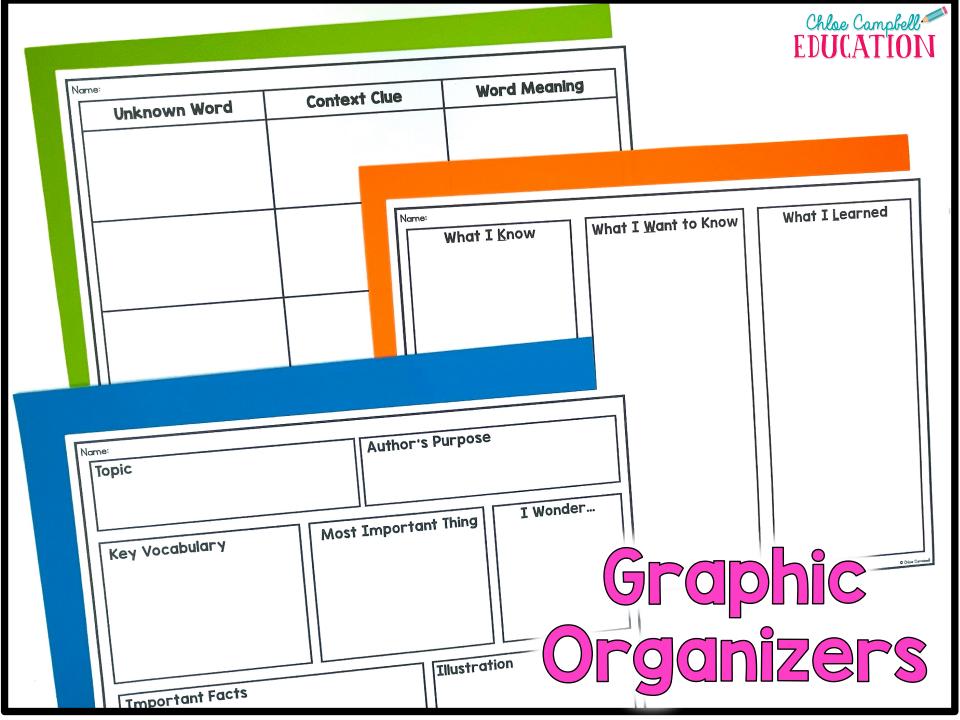
Teacher Tips

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 meanina.

- 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.
- З. 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.
- Define Unknown Words: During this step, invite students to circle any Ч. 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 5. students to read the passage independently.
- Respond to Reading: Students will now use the text to answer the IO 6.

Graphic Organizers

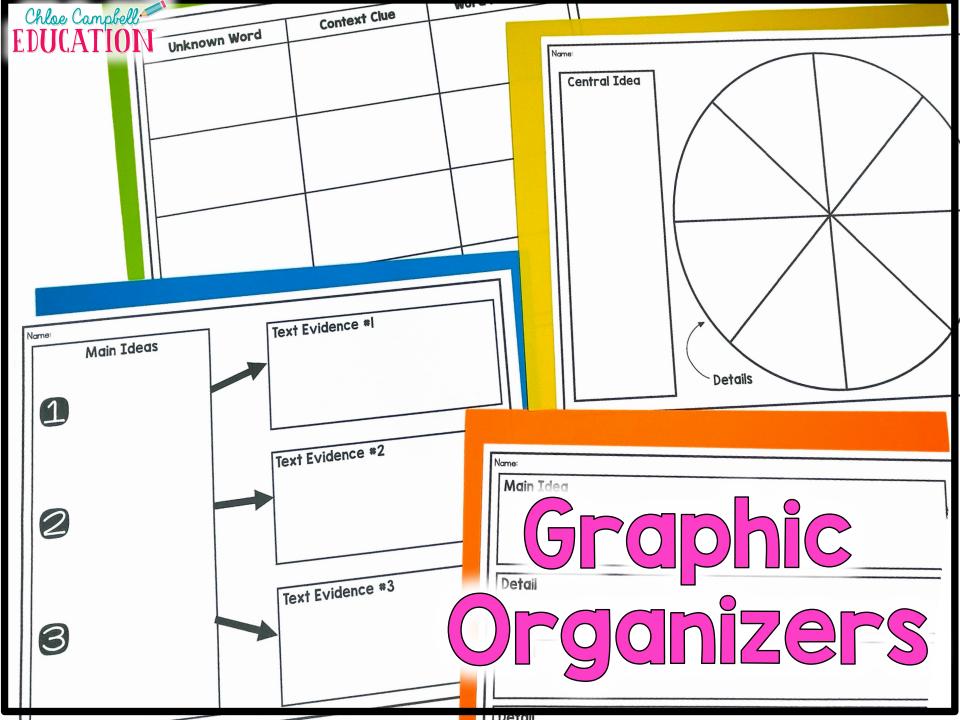
- Main Ideas with Text Evidence
- Central Ideas with Text Evidence
- Central Ideas with Details
- Main Idea, Details, Conclusion
- KWL: What I Know, What I Want to Know, What I Learned
- Overview: Topic, Author's Purpose, Key Vocabulary, Most Important Thing, I Wonder, Important Facts, Illustration
- 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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