

#### Galaxies

Another type of spiral galaxies also exists; they are known as barred spirals.

Barred spirals are similar, except that they through the middle of the bulge. The arms o shining stars and gas. These young stars give lose some of their shine. Scientists believe the get older, spiral galaxies turn into elliptical g The most commonly known spiral galaxy is of it? It is a barred

#### Galaxies

Galaxies

Consider the sky above you; when you've looked up, what have you seen there? Likely stars, clouds, the Sun, and the moon, but did you know that other things t or live in the sky? We use the term galaxy to represent the areas of , gas, dust, and black matter that exist up there. Galaxies are held her by gravity, and more than 100 million different types exist. Wow, a lot! We can't see galaxies with our eyes, but we could if we were to elescope. Astronomers are scientist

#### Galaxies

Name

- a. people who enjoy looking at the stars through a telescope What does the word astronomers mean? scientists who study galaxies, planets, stars, and the solar scientists who only study galaxies
  - Annotate the
  - people w

  - What is the main ide a. more tha
    - we have
    - astronon
    - galaxies
    - Which of the following
      - ellipticals
      - irregular
      - The Milk
      - What is the logical r
        - spirals a spirals c
        - their sta contain
        - stars die

a to squist

10. What does the word

Circle unknown words

Number the

paragraphs

Underline

important statements

Question? Confusing?

Interesting

- Select the word or phrase from the paragraph that helps the reader understand the Name: meaning of the word exist.

  - in the sky
- What evidence does the author use to support the idea that elliptical galaxies are the
  - main type of galaxies in the sky? a. the largest type of elliptical galaxy is a giant elliptical
    - dwarf ellipticals are common galaxies that often produce many stars

    - elliptical galaxies can come in different sizes making up one-third of the galaxies in the universe, elliptical galaxies are one
  - Where in the text does the author show evidence to support the claim that the Milky Way is the most famous type of spiral galaxy?
    - a. Paragraph 2
    - b. Paragraph 3
    - c. Paragraph 4
    - d. Paragraph 5
    - What is the main idea of paragraph 6?
      - irregular galaxies have some of the brightest stars
      - b. Irregular galaxies can contain bars like barred spirals irregular galaxies are shapeless galaxies that are neither spiral nor circular
        - like a splatter of paint In shape

### This resource includes:

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





#### Galaxies

Another type of spiral galaxies also exists; they are known as barred spirals. Barred spirals are similar, except that they through the middle of the bulge. The arms o shining stars and gas. These young stars give lose some of their shine. Scientists believe t get older, spiral galaxies turn into elliptical g The most commonly known spiral galaxy is of it? It is a barred spiral as it has a bar s Milky Way is around 13.6 billion years old ar 10,000 light-years thick. Our solar system

#### Irregular Galaxies

Have you ever had paint splatter? It may Irregular galaxies look like this and are of stars. They have no actual shape. When g elliptical or spiral galaxies, scientists deer galaxies possess some of the brightest s spirals, irregular galaxies can also contai surrounded by a chaotic mass of other bar in the middle and spirals of stars su

With several different types of galaxie astronomers are fascinated by all that

#### Galaxies

Consider the sky above you; when you've looked up, what have you seen there? Likely stars, clouds, the Sun, and the moon, but did you know that other things exist or live in the sky? We use the term galaxy to represent the areas of stars, gas, dust, and black matter that exist up there. Galaxies are held together by gravity, and more than 100 million different types exist. Wow, that's a lot! We can't see galaxies with our eyes, but we could if we were to use a telescope. Astronomers are scientists who study the galaxies and all other things in the sky and have helped us learn the information we know today.

#### Types of Galaxies

Even with 100 million types existing, three main ones are best known. The three major types of galaxies are elliptical, spiral, and irregular galaxies.

#### Elliptical Galaxies

Making up one-third of the galaxies in the universe, elliptical galaxies are one of the most common. Elliptical galaxies can come in different sizes, usually



many stars They are much smaller than giant ellipticals, which are only 2,000

or 3,000 Spiral Galo Spiral gala flat, blue sp dust, stars, and gas. Spiral galaxies have a bulge in the middle w

I admiss that look like this are known as normal spirals.



#### Galaxies

- a. people who enjoy looking at the stars through a telescope What does the word astronomers mean? Name:

  - scientists who study galaxies, planets, stars, and the solar system scientists who only study galaxies

  - d. people who teach about
  - What is the main idea of paragraph
    - a. more than 100 million di
    - we have seen the Sun,
    - astronomers study gal
    - galaxies are the areas
    - Which of the following galaxies do
      - a. spirals
      - ellipticals
      - irregular spirals
      - The Milky Way

the logical reason why

#### Name:

#### Galaxies

- Select the word or phrase from the paragraph that helps the reader understand the meaning of the word exist.
  - things

  - in the sky
  - galaxy
- 2. What evidence does the author use to support the idea that elliptical galaxies are the main type of galaxies in the sky?
  - a. the largest type of elliptical galaxy is a giant elliptical
  - b. dwarf ellipticals are common galaxies that often produce many stars
  - elliptical galaxies can come in different sizes
  - d. making up one-third of the galaxies in the universe, elliptical galaxies are one of the most common

Where in the text does the author show evidence to support the claim that the Milky Way is the most famous type of spiral galaxy?

- a. Paragraph 2
- Paragraph 3
- Paragraph 4
- Paragraph 5
- 4. What is the main idea of paragraph 6?
  - irregular galaxies have some of the brightest stars
  - irregular galaxies can contain bars like barred spirals
  - irregular galaxies are shapeless galaxies that are neither spiral nor circular in shape
  - irregular galaxies are like a splatter of paint
  - Which of the following details is most important to the topic of what a light-year is?
    - a. light-years are the distance light travels in one year
    - the largest type of elliptical galaxy is a glant elliptical, which is 300,000

# to throw stars

## 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

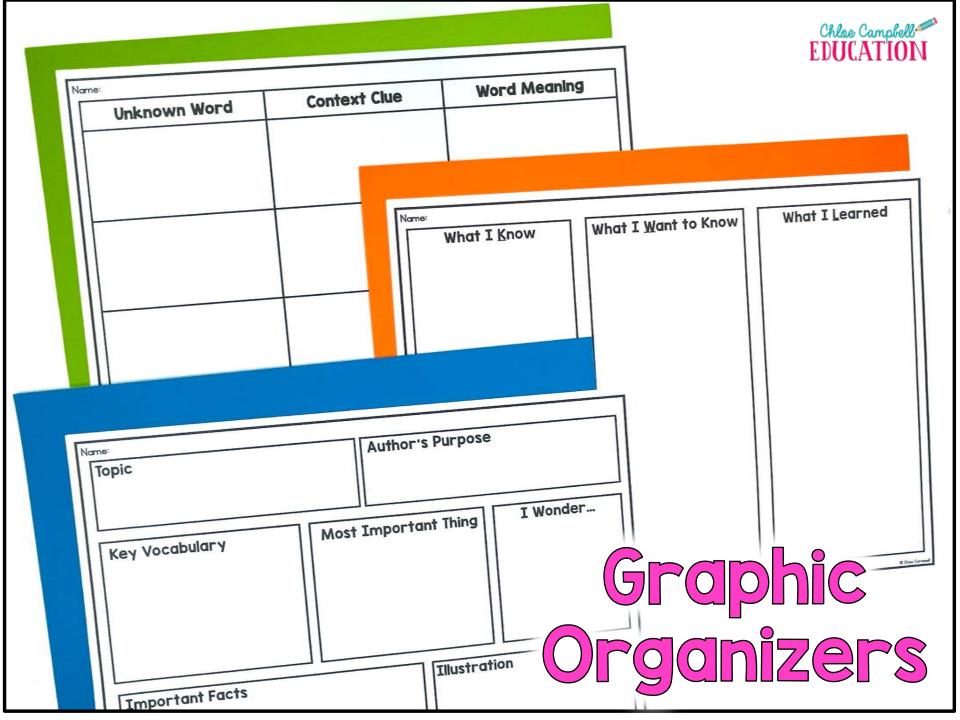
Close reading: A reading strategy that is used to comprehend and analyze a text closely. Students will typically read the text at least twice for comprehension, details, analysis, and deep questioning of the text's purpose and meaning.

- 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



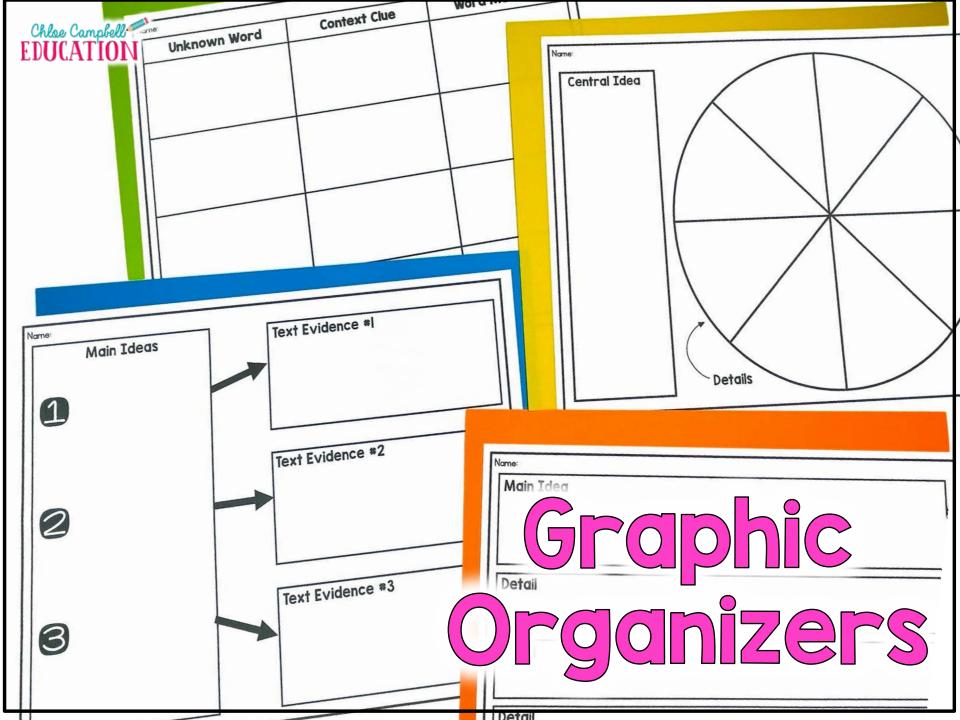


### Ideas for Use

Whole Group Instruction



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





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