## Lesson 8 Verb Moods

## Introduction

Verb moods indicate the writer's view as to whether a statement is a fact, a command, a question, a possibility, or something that is contrary to fact.

| Verb Mood | Example |
| :--- | :--- |
| Indicative expresses a fact or opinion. | The election will be on Tuesday. |
| Imperative gives a command, omitting the subject. | Remember to vote. |
| Interrogative asks a question. | Have you met all the candidates? |
| Conditional expresses a possibility or uncertainty, <br> often using could, would, or might. | Kim would make the best president. |
| Subjunctive expresses something contrary to fact, <br> or makes a suggestion, using a that clause. | I wish Tyler were a candidate. <br> I recommend that you vote for Kim. |

- When you use the subjunctive mood with a singular subject, use the plural verb form in most cases. If the verb is be, use the past plural, were, when expressing something contrary to fact.

I suggest that he join (not joins) the campaign.
Jenna acts as if she were (not was or is) already president.

- When a main clause uses conditional words like would or might, these words are often unnecessary in the subordinate clause and should be avoided.

I would have voted for Maya if she had (not would have) asked me.

## Guided Practice Rewrite each sentence, changing the mood as indicated in parentheses.

## Hint

You can combine a subordinate clause that is subjunctive with a main clause that is conditional.

## Example:

If I were you, I would register to vote.

1 If it is not too late, I will vote. (subjunctive and conditional; see Hint)

2 Will you vote for Harry for president? (imperative)

3 He commands the stage like a movie star. (subjunctive, using "as if")

4 Harry would be an excellent president. (indicative)

## 8 Independent Practice

For numbers 1-5, choose the correct answer.

1 If you want an intelligent leader, you should choose Marty.

Which revision changes the underlined clause from the conditional to the imperative mood?

A choose Marty
B you will choose Marty
C Marty might be the best choice
D Marty would be the best choice

2 If all the votes have been counted, is Marty the winner?

Which revision changes the underlined clause from the interrogative to the indicative mood?

A Marty should be the winner.
B Marty would be the winner.
C Marty were the winner.
D Marty is the winner.

3 They will be surprised when you announce the winner.

Which revision changes the underlined clause from the indicative to the conditional mood?

A They might be surprised
B Will they be surprised
C Surprise them
D They were surprised

## Answer Form

1 (A) (B) (C) (D)
2 (A) (B) (C) (D)
3 (A) (B) (C) (D)
4 (A) (B) (C) (D) Number
5 (A) (B) (C) (D) Correct 5

4 The committee urged that Travis should consider his vote carefully.

Which of the following is the best substitute for the underlined verb phrase in the sentence?

A consider
B will consider
C considers
D would consider

5 If Lori was a candidate, I would have voted for her.

Which of the following is the best substitute for the underlined verb in the sentence?

A will be
$B$ is
C were
D could be

## Lesson 9

Shifts in Voice and Mood

## Introduction Shifting verb voice (active and passive) or mood (indicative,

 imperative, interrogative, conditional, and subjunctive) within a sentence can make your writing awkward and confuse your reader.- Avoid changing from the passive voice to the active voice, and vice versa.

| Shifts in Voice |  |
| :---: | :---: |
| Inconsistent: | passive active |
|  | The Carolina Ballet Theatre was created in 1972, and its founder designed it to be a permanent dance company. |
|  | passive passive |
| Better: | The Carolina Ballet Theatre was created in 1972, and it was designed by its founder to be a permanent dance company. |
|  | active active |
| Better: | The founder created the Carolina Ballet Theatre in 1972, and she designed it to be a permanent dance company. |

- Avoid shifting from one verb mood to another.

| Shifts in Verb Mood |  |  |
| :---: | :---: | :---: |
| Inconsistent: Go to th |  | indicative |
|  |  | Inconsistent: Go to the website, and you will read more about the company. |
| Better: | imperative | imperative |
|  | Go to th | read more abo |

## Guided Practice Underline inappropriate shifts in verb voice or mood. Then, on a

 separate piece of paper, rewrite each sentence to correct inappropriate shifts in verb voice or mood.
## Hint

When you use active voice, the subject does the action. When you use passive voice, the subject receives the action.

1 The Carolina Ballet Theatre employs ten dancers, and each dancer would be uniquely talented.

2 Watch them perform, and you will learn more about ballet.
3 Students in the community are reached out to by the dance company, so ballet influences their lives in a positive way.

4 The dance company is supported by generous donors, and it has performed in many other countries.

For numbers 1 and 2, read the sentences. Which revision best corrects the shift in verb mood?

Find out how to get tickets, and it is a good idea to buy them right away.
A Find out how to get tickets, and buy them right away.

B You will need to find out how to get tickets, and make sure to buy them right away.

C Did you find out how to get tickets, and it is a good idea to buy them right away?

D Find out how to get tickets, and is it a good idea to buy them right away?

2 Melissa Podcasy is a wonderful dancer, and enjoy watching her perform.

A Melissa Podcasy is a wonderful dancer, and will you enjoy watching her perform?

B Melissa Podcasy is a wonderful dancer, and you will enjoy watching her perform.

C Is Melissa Podcasy a wonderful dancer, and might you enjoy watching her perform?

D Melissa Podcasy would be a wonderful dancer, and enjoy watching her perform.

Answer Form
1 (A) (B) (C) (B)
2 (A) (B) (C) (D)
$\begin{array}{llll}3 & \text { (A) (B) (C) (D) } & \text { Number } \\ 4 & \text { (A) (B) (C) (D) } & \text { Correct }\end{array}$

For numbers 3 and 4, read the sentences. Which revision best corrects the shift in verb voice?

3 Podcasy performed with the ballet, and tours were arranged for her by Columbia Artists.

A Podcasy has performed, and tours have been arranged for her.

B Podcasy performed with the ballet, and tours have been arranged for her by Columbia Artists.

C Podcasy performed with the ballet, and Columbia Artists arranged tours for her.

D Podcasy was performed with the ballet, and tours happened.

4 Performances have been arranged by dancer Timour Bourtasenkov, and he has starred in many roles.
A Performances have been arranged, and dancer Timour Bourtasenkov has starred in many roles.

B Performances, arranged by dancer Timour Bourtasenkov, and he has starred in many roles.
C Performances were arranged by dancer Timour Bourtasenkov, and he starred in many roles.

D Dancer Timour Bourtasenkov has arranged performances, and he has starred in many roles.

## Lesson 9 Part 1: Introduction <br> Summarizing Literary Texts

Your best friend missed her favorite show. She knows you watch it, too, and calls asking you to summarize what happened. When you summarize, you briefly retell the main characters, setting, conflict, and important events. To paint as clear a picture as possible, you make sure your summary is objective, or free of your own opinions.

## Study these images about a time traveler. Look for details about character, setting, and events.



Now review the graphic organizer below. Notice that it includes only essential details, tells events in the order they happened, and is free of personal opinions.


Summarizing isn't just a way for you to describe a story to others. It can also be a tool to help you understand what you're reading. Stop occasionally to summarize what has happened. Be sure you include only the most important details. This process will help you check your understanding of a text and remember important details.

## Read the first three paragraphs of this science fiction story.

Genre: Science Fiction

## Touchdown on Spectra Omicron 8 by William Nicols

This just in! The UFP Ulysses vessel has touched down on the planet Spectra 8. This signifies the first stage in its terraforming expedition. The complex multi-stage terraforming process will make Spectra's atmosphere more like that of Earth and livable for humans.

Captain Jane Young and her crew of 21 blasted off in May of 2218 for the 6 -year journey through deep space to reach the lifeless planet. They encountered a number of problems along the way. First, they were stuck in the gravitational pull of an anti-matter black hole. They also had to deal with a salmonella outbreak in the ship's food storage.

In October of this year, the Ulysses established orbit. Lieutenant Bobby Sullivan piloted the vessel toward the planet's surface. He set the angle-of-entry so the ship would not burn up when passing through the atmosphere. After securing visual confirmation of the landing site, Sullivan deployed the landing gear, applied the thrusters, and brought the ship in for a soft three-point landing.
(continued)

## Explore how to answer this question: "How can you best summarize this part of the story?"

Remember that a summary is a brief retelling that includes the main characters, setting, and important events. Underline each of these things in the story above.

Summaries should be objective, or free of opinions and judgments. Read the following summary of the story. Cross out any opinions and personal feelings in the summary.

In the year 2218, the Ulysses sets off on a really dangerous mission to begin the terraforming of planet Spectra 8 . They have to deal with some scary problems along the way, but they finally reach the planet. The most interesting part is how pilot Bobby Sullivan brings the ship in for a safe landing.

- "Really dangerous" in the first sentence is an opinion and not a detail from the text. Cross it out.
- The word "scary" in the second sentence is another opinion. Cross it out, too.
- Remove "The most interesting part," which is a judgment.

Find a partner and work together to improve this part of the summary. Include additional information about the characters, setting, and important events. Also be sure to keep the summary objective by avoiding opinions and judgments, such as "My favorite part was . . ." or "It was great how..."

## Close Reading

Before you start summarizing, underline the names of important characters as well as clues about the setting. Circle important events.

## Hint

Avoid answer choices that include an opinion or unimportant details.

## Continue reading the science fiction story. Then answer the question that follows.

## (continued from page 78)

Now that the Ulysses has landed, it is time for Young and her team to begin exploring the planet's surface. Spectra Omicron 8 is little more than loose rocks of red clay. One of Captain Young's top priorities is establishing the Ulysses base camp with its many domed sections. With so much carbon monoxide in the atmosphere, oxygen corridors must be built to connect the domes, which will be used for farming, geological research, and communications. A molten-carbon drill will then be constructed in the camp's center to burrow through to the planet's core, carrying the terraforming unit that will aid in surface reconstruction.

## Circle the correct answer.

Which is the best summary for this portion of the text?
A Captain Young explores the planet's surface and begins building the base camp.
B Captain Young shows she is a strong leader by quickly establishing the base camp.
C The domes in the base camp will be used for farming, geological research, and communications.
D The drill at the center of the camp is made from molten-carbon.

## Show Your Thinking

Explain why the other answer choices are not good summaries of the second part of the text.
$\qquad$
$\qquad$
$\qquad$

Take turns briefly summarizing the entire story with a partner, using details about character, setting, and important events. Make sure your summaries are free of opinions and judgments.

# Read the science fiction story. Use the Study Buddy and the Close Reading to guide your reading. 



As I read, I will pause to summarize who the characters are, where the story is set, and what some of the important events are.

## Close Reading

In addition to the narrator, who are the main characters in the story? Circle the first mention of each one.

## Underline important

 details that provide clues about where Allya was and the alien they have encountered.Genre: Science Fiction

## Prime Contact by Justin Greenfield

Imperator's $\log$, the 36 th of Quelnar, 4278
1 Today I had a fascinating meeting with a promising new captain by the name of Allya. The first thing I noticed about her was the remarkable hue of her purple eyes, much more vibrant than the rest of ours.

2 At any rate, she relayed to me how her crew had recently returned from a mission to the third planet from the central star, where they had an encounter with one of the dominant life forms. I inquired as to the extent of the creatures' technology, and Allya replied that they had advanced machines but preferred to let their servants operate them. These servants live with them-in fact, there are often several servants in each home. They walk about on two legs, prepare food, and feed their fourlegged masters.
3 Allya then told me that a member of this alien race had returned with them on their ship. Of course, I asked to see the creature straight away, and when it was brought into my throne room, I was taken with how friendly it appeared, inviting but cautious. Its wide, green eyes were alert and confident, but-dare I say-bored?
4 Since it was a very short and very furry sort of alien, I lay down on the floor to establish better verbal communication with it. I welcomed it to Harlapan, home of the Galactic Confederacy. The creature stretched out its front legs and appeared to bow. I distinctly heard an odd purring sound coming from it. A form of telepathic language it shares with its species, perhaps?

5 "Meow," it said with great dignity before turning to the task of licking its paws. Fascinating.

## Hints

Which of the four answer choices is an important statement about the story that does not contain an opinion?

Omit the choices that are not connected to the ending, or that are unimportant or not objective.

The story tells the events in a certain order. That is not, however, the order in which the events actually happened in time.

## Use the Hints on this page to help you answer the questions.

1 Which of the following would you include in a summary of "Prime Contact"?

A It's very funny that the Imperator doesn't realize that the alien is a house cat.

B The Imperator of Harlapan asks to meet the alien that has returned with Allya.

C The alien loses interest in the Imperator and starts licking its paws.
D The Imperator is fascinated by Allya's remarkable purple eyes.
2 Which is the best summary for the last events of the story?
A Allya travels to the third planet and brings back an alien.
B The people of Harlapan are clearly very advanced.
C The servants the Imperator describes must be humans.
D The alien meows and licks its paws, revealing that it's a cat.
3 The notes for a summary need to be arranged correctly into the order in which the events occur in the passage.

Indicate the correct chronological order of the events below by writing the numbers 1 to 8 on the blank before each sentence.
$\qquad$ An alien creature boards Allya's ship.
$\qquad$ Captain Allya tells how the servants care for their masters.
$\qquad$ The Imperator lies down on the floor.
$\qquad$ The Imperator meets with Captain Allya.
$\qquad$ Allya and her crew visit another planet.
$\qquad$ The Imperator notices the alien's confidence.
$\qquad$ The alien makes a strange purring sound.
$\qquad$ The Imperator asks to meet the alien.

## Read the story. Then answer the questions that follow.

## from The War of the Worlds

by H. G. Wells

Earth was not prepared for the Martian invasion that began in a field outside of London. Disbelief turned to horror as the Martian forces spread throughout the country, destroying everything in their path. No human weapons were able to stop their deadly attacks and superior technology. Then a sudden and surprising set of events occurred that changed everything.

1 I came upon the wrecked handling-machine halfway to St. John's Wood station. At first I thought a house had fallen across the road. It was only as I clambered among the ruins that I saw, with a start, this mechanical Samson lying, with its tentacles bent and smashed and twisted, among the ruins it had made. The forepart was shattered. It seemed as if it had driven blindly straight at the house, and had been overwhelmed in its overthrow. It seemed to me then that this might have happened by a handling-machine escaping from the guidance of its Martian. I could not clamber among the ruins to see it, and the twilight was now . . . far advanced....

2 Wondering still more at all that I had seen, I pushed on towards Primrose Hill. Far away, through a gap in the trees, I saw a second Martian, as motionless as the first, standing in the park towards the Zoological Gardens, and silent. A little beyond the ruins about the smashed handling-machine I came upon the red weed ${ }^{1}$ again, and found the Regent's Canal, a spongy mass of dark-red vegetation. . . .

3 Great mounds had been heaped about the crest of the hill, making a huge redoubt ${ }^{2}$ of it-it was the final and largest place the Martians had made-and from behind these heaps there rose a thin smoke against the sky. Against the sky line an eager dog ran and disappeared. The thought that had flashed into my mind grew real, grew credible. I felt no fear, only a wild trembling exultation, as I ran up the hill towards the motionless monster. Out of the hood hung lank shreds of brown, at which the hungry birds pecked and tore.
4 In another moment I had scrambled up the earthen rampart and stood upon its crest, and the interior of the redoubt was below me. A mighty space it was, with gigantic machines here and there within it, huge mounds of material and strange shelter places. And scattered about it, some in their overturned warmachines, some in the now rigid handling-machines, and a dozen of them stark and silent and laid in a row, were the Martians—dead—slain by the putrefactive ${ }^{3}$ and disease bacteria against which their systems were unprepared; slain as late the red weed was being slain; slain, all after man's devices had failed, by the humblest things that God, in his wisdom, has put forth upon this earth.

[^0]5 For so it had come about, as indeed I and many men might have foreseen had not terror and disaster blinded our minds. These germs of disease have taken toll of humanity since life began here. . . . But there are no bacteria on Mars, and directly these invaders arrived, directly they drank and fed, our microscopic allies began to work their overthrow.

1 Which detail from paragraph 1 would be least important to include in a summary of the paragraph?

A On the way to St. John's Wood station, the narrator finds a demolished handling-machine.

Answer Form

| (A) (B) (C) (1) |  |
| :---: | :---: |
| 2 (A) (B) (C) (1) |  |
| 3 (A) (B) (C) (1) | Number |
| 4 (A) (B) (C) (1) | Correct |

B The machine seems to have collapsed in the middle of destroying a house.
C The narrator believes that the wreckage might be the result of a Martian losing control of the machine.

D Due to the lack of light, the narrator cannot see inside the wreck.

2 Which of the following is not an objective statement of events?
A The narrator notices a second smashed and motionless handling-machine as he continues on his way towards Primrose Hill.

B The aliens probably felt they had nothing to fear from the weak creatures of Earth.
C After seeing smoke behind the Martian redoubt, the narrator has a thought that causes him to run eagerly toward another immobile machine.

D The remains of a Martian's body are hanging out of the hood of one of the machines.

3 Which statement is the best summary of paragraph 2?
A As the narrator approaches Primrose Hill, he finds more signs of the dying Martians.
B The narrator explores the area around the Zoological Gardens and the Regent's Canal.
C Curious about the crashed machine, the narrator makes his way toward Primrose Hill.
D Two Martian machines have mysteriously broken down, and the narrator investigates.

4 Which statement relating to paragraphs 4 and 5 would be most important to include in a summary of the end of the story?

A The narrator has to stand on the crest of the Martian fortification in order to see the scene in its interior.

B On the other side of the redoubt is a huge space with odd areas of shelter.
C The Martians are conquered by simple disease bacteria to which their bodies are not immune.

D The people of Earth should have recognized the importance of bacteria in defeating the Martians.

5 Write a brief and objective summary of this story. Remember to include the most important events, as well as at least three key details about characters and setting.
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$\qquad$
$\qquad$
$\qquad$

## Read the passage. Then answer the questions that follow.

# from Five Weeks in a Balloon 

by Jules Verne<br>published by George Routledge and Sons, 1876

1 Dr. Ferguson had a friend—not another self, indeed, an alter ego, for friendship could not exist between two beings exactly alike.

2 But, if they possessed different qualities, aptitudes, and temperaments, Richard Kennedy and Samuel Ferguson lived with one and the same heart, and that gave them no great trouble. In fact, quite the reverse. . . .

3 The acquaintanceship of these two friends had been formed in India, when they belonged to the same regiment. While Richard would be out in pursuit of the tiger and the elephant, Samuel would be in search of plants and insects. Each could call himself expert in his own province, and more than one rare botanical ${ }^{1}$ specimen, that to science was as great a victory won as the conquest of a pair of ivory tusks, became the doctor's booty.

4 Since their return to England they had been frequently separated by the doctor's distant expeditions; but, on his return, the latter never failed to go, not to ASK for hospitality, but to bestow some weeks of his presence at the home of his crony Richard.
5 The Scot talked of the past; the doctor busily prepared for the future. The one looked back, the other forward. Hence, a restless spirit personified in Ferguson; perfect calmness typified in Kennedy-such was the contrast.

6 After his journey to the Thibet, the doctor had remained nearly two years without hinting at new explorations; and Richard, supposing that his friend's instinct for travel and thirst for adventure had at length died out, was perfectly enchanted. They would have ended badly, some day or other, he thought to himself; no matter what experience one has with men, one does not travel always with impunity ${ }^{2}$ among cannibals and wild beasts. So, Kennedy besought the doctor to tie up his bark for life, having done enough for science, and too much for the gratitude of men.

7 The doctor contented himself with making no reply to this. He remained absorbed in his own reflections, giving himself up to secret calculations, passing his nights among heaps of figures, and making experiments with the strangest-looking machinery, inexplicable to everybody but himself. It could readily be guessed, though, that some great thought was fermenting ${ }^{3}$ in his brain.
8 "What can he have been planning?" wondered Kennedy, when, in the month of January, his friend quitted him to return to London.
$9 \quad$ He found out one morning when he looked into the Daily Telegraph.
10 "Merciful Heaven!" he exclaimed, "the lunatic! the madman! Cross Africa in a balloon! Nothing but that was wanted to cap the climax! That's what he's been bothering his wits about these two years past!"

[^1]... On that very evening Kennedy, half alarmed, and half exasperated, took the train for London, where he arrived next morning.
12 Three-quarters of an hour later a cab deposited him at the door of the doctor's modest dwelling, in Soho Square, Greek Street. Forthwith he bounded up the steps and announced his arrival with five good, hearty, sounding raps at the door.

13 Ferguson opened, in person.
14 "Richard! You here?" he exclaimed, but with no great expression of surprise, after all.
15 "Richard himself!" was the response. ...
16 "And what have you come to town for?"
17 "To prevent the greatest piece of folly that ever was conceived."
18 "Folly!" said the doctor.
19 "Is what this paper says, the truth?" rejoined Kennedy, holding out the copy of the Daily Telegraph, mentioned above.

20 "Ah! That's what you mean, is it? These newspapers are great tattlers! But, sit down, my dear Richard."
21 "No, I won't sit down!-Then, you really intend to attempt this journey?"
22 "Most certainly! All my preparations are getting along finely, and I-"
23 "Where are your traps? Let me have a chance at them! I'll make them fly! I'll put your preparations in fine order." And so saying, the gallant Scot gave way to a genuine explosion of wrath.

24 "Come, be calm, my dear Richard!" resumed the doctor. "You're angry at me because I did not acquaint you with my new project."

25 "He calls this his new project!"
26 "I have been very busy," the doctor went on, without heeding the interruption; "I have had so much to look after! But rest assured that I should not have started without writing to you."

27 "Oh, indeed! I’m highly honored."
28 "Because it is my intention to take you with me."
29 Upon this, the Scotchman gave a leap that a wild goat would not have been ashamed of among his native crags.

30 "Ah! Really, then, you want them to send us both to Bedlam!"
31 "I have counted positively upon you, my dear Richard, and I have picked you out from all the rest."
32 Kennedy stood speechless with amazement. ...
33 But he made up his mind to oppose his friend's departure by all means in his power, and so pretended to give in, at the same time keeping on the watch. As for the doctor, he went on diligently with his preparations.

17 This question has two parts. First, answer part A. Then, answer part B.

## Part A

How does Richard Kennedy feel when he reads the newspaper article about Samuel Ferguson's plan?

A He is shocked.
B He is angry but amused.
C He is nervous.
D He is secretly proud.

## Part B

Which sentence from the story best supports the answer to part A?
A "While Richard would be out in pursuit of the tiger and the elephant, Samuel would be in search of plants and insects."

B "The Scot talked of the past; the doctor busily prepared for the future."
C "'Merciful Heaven!' he exclaimed, 'the lunatic! the madman!'"
D "'Oh, indeed! I'm highly honored.'"

18 What themes are revealed through the descriptions and interactions of Richard Kennedy and Samuel Ferguson? Select all that apply.

A True friends are willing to forgive past mistakes.
B Even the closest friends face challenges in their relationship.
C Even the best friendships can fade over time.
D Good friends always agree about important issues.
E Friendship is more important than success.
F Close friendships can develop between very different people.

19 Read the dialogue in paragraphs 21 through 27 of the excerpt. What does the dialogue reveal about Richard Kennedy?

A He is hurt because the doctor didn't tell him about the plans.
B He is outraged because he considers the trip to be dangerous.
C He is impatient to get started on the journey.
D He is pleased that he will be included on the trip.

20 The ancient Greek poem The Odyssey tells of the journey Odysseus makes to return to his home after the Trojan War and the many obstacles he faces and strange worlds he encounters. Based on the excerpt, how is the universal theme of the journey different in Five Weeks in a Balloon?

A The main character knows he must make the journey alone without help from others.
B The main character chooses to leave home and seek out adventure.
C The main character does not have a home that he can return to.
D The main character's journey will take him to a familiar and popular place.

21 Read the following excerpt from a play adapted from Five Weeks in a Balloon.
It is morning, outside Dr. Samuel Ferguson's modest home in London. Richard Kennedy exits a cab, runs up the steps, and pounds on the door. Samuel opens it.

SAMUEL [Enthusiastic but not surprised]: Well hello, Richard! What are you doing here?
RICHARD [Shaken]: What do you think? I'm here to stop you from committing the most outrageous foolishness of your life!

SAMUEL [Furrowing his brow]: Foolishness?
RICHARD [Holding out and waving a copy of the Daily Telegraph, open to the article about Samuel and his plan to cross Africa in a balloon]: Is it true what the paper says? What on earth can you be thinking?

SAMUEL [Smiling]: Is that what all this fuss is about? Come inside, my dear friend, and take a seat.
[The two men step inside and enter Samuel's front room. Samuel gestures toward the couch.]

RICHARD: [Angrily.] No, I will not sit down! Are you honestly going to attempt this ill-fated journey?
SAMUEL: [Calmly] Absolutely. All my preparations are coming along most smoothly.
Compare and contrast how the differing structures of the story and the play contribute to the communication of meaning. Use details from both texts to support your response.

## Read the story. Then answer the questions that follow.

## from A Pair of Silk Stockings

by Kate Chopin, 1876

1 Little Mrs. Sommers one day found herself the unexpected possessor of fifteen dollars. It seemed to her a very large amount of money, and the way in which it stuffed and bulged her worn old porte-monnaie ${ }^{1}$ gave her a feeling of importance such as she had not enjoyed for years.

2 The question of investment was one that occupied her greatly. For a day or two she walked about apparently in a dreamy state, but really absorbed in speculation and calculation. She did not wish to act hastily, to do anything she might afterward regret. But it was during the still hours of the night when she lay awake revolving plans in her mind that she seemed to see her way clearly toward a proper and judicious use of the money.

3 A dollar or two should be added to the price usually paid for Janie's shoes, which would insure their lasting an appreciable time longer than they usually did. She would buy so and so many yards of percale ${ }^{2}$ for new shirt waists for the boys and Janie and Mag. She had intended to make the old ones do by skillful patching. Mag should have another gown. She had seen some beautiful patterns, veritable bargains in the shop windows. And still there would be left enough for new stockings-two pairs apiece-and what darning that would save for a while! She would get caps for the boys and sailor-hats for the girls. The vision of her little brood looking fresh and dainty and new for once in their lives excited her and made her restless and wakeful with anticipation.

4 The neighbors sometimes talked of certain "better days" that little Mrs. Sommers had known before she had ever thought of being Mrs. Sommers. She herself indulged in no such morbid retrospection. She had no time-no second of time to devote to the past. The needs of the present absorbed her every faculty. A vision of the future like some dim, gaunt monster sometimes appalled her, but luckily to-morrow never comes.

5 Mrs. Sommers was one who knew the value of bargains; who could stand for hours making her way inch by inch toward the desired object that was selling below cost. She could elbow her way if need be; she had learned to clutch a piece of goods and hold it and stick to it with persistence and determination till her turn came to be served, no matter when it came.

6 But that day she was a little faint and tired. She had swallowed a light luncheon-no! when she came to think of it, between getting the children fed and the place righted, and preparing herself for the shopping bout, she had actually forgotten to eat any luncheon at all!
${ }^{1}$ porte-monnaie: a small pocketbook or wallet for carrying money
${ }^{2}$ percale: a kind of fabric usually used for making sheets and clothing
$7 \quad$ She sat herself upon a revolving stool before a counter that was comparatively deserted, trying to gather strength and courage to charge through an eager multitude that was besieging breastworks of shirting and figured lawn. An all-gone limp feeling had come over her and she rested her hand aimlessly upon the counter. She wore no gloves. By degrees she grew aware that her hand had encountered something very soothing, very pleasant to touch. She looked down to see that her hand lay upon a pile of silk stockings. A placard nearby announced that they had been reduced in price from two dollars and fifty cents to one dollar and ninety-eight cents; and a young girl who stood behind the counter asked her if she wished to examine their line of silk hosiery. She smiled, just as if she had been asked to inspect a tiara of diamonds with the ultimate view of purchasing it. But she went on feeling the soft, sheeny luxurious things-with both hands now, holding them up to see them glisten, and to feel them glide serpent-like through her fingers.

8 Two hectic blotches came suddenly into her pale cheeks. She looked up at the girl.
9 "Do you think there is any eights-and-a-half among these?"
10 There were any number of eights-and-a-half. In fact, there were more of that size than any other. Here was a light-blue pair; there were some lavender, some all black and various shades of tan and gray. Mrs. Sommers selected a black pair and looked at them very long and closely. She pretended to be examining their texture, which the clerk assured her was excellent.

11 "A dollar and ninety-eight cents," she mused aloud. "Well, I'll take this pair." She handed the girl a five-dollar bill and waited for her change and for her parcel. What a very small parcel it was! It seemed lost in the depths of her shabby old shopping-bag.

12 Mrs. Sommers after that did not move in the direction of the bargain counter. She took the elevator, which carried her to an upper floor into the region of the ladies' waiting-rooms. Here, in a retired corner, she exchanged her cotton stockings for the new silk ones which she had just bought. She was not going through any acute mental process or reasoning with herself, nor was she striving to explain to her satisfaction the motive of her action. She was not thinking at all. She seemed for the time to be taking a rest from that laborious and fatiguing function and to have abandoned herself to some mechanical impulse that directed her actions and freed her of responsibility.

6 This question has two parts. First, answer part A. Then, answer part B.

## Part A

In the last paragraph, what does the reader understand about Mrs. Sommers that she probably does not understand herself?

A She has just taken the silk stockings without paying.
B She has forgotten how to behave properly in public.
C She is not able to think clearly because she is so upset.
D She longs for the life she had before she had children.

## Part B

Which sentence from the passage best supports the answer to part A?
A "Mrs. Sommers after that did not move in the direction of the bargain counter."
B "She took the elevator, which carried her to an upper floor into the region of the ladies" waiting-rooms."

C "Here, in a retired corner, she exchanged her cotton stockings for the new silk ones which she had just bought."

D "She seemed for the time to be taking a rest from that laborious and fatiguing function and to have abandoned herself to some mechanical impulse that directed her actions and freed her of responsibility."

7 What does Mrs. Sommers' plan for using the money help the reader understand about what kind of person she is? Select all that apply.
A Her plan shows that she enjoys spending money on herself.
B Her plan shows that she is used to putting others before herself.
C Her plan shows that she often does things without thinking.
D Her plan shows that she does not really care about her family.
E Her plan shows that she behaves practically and sensibly.

8 What effect does the author create by comparing the silk stockings to a "tiara of diamonds"?
A The author expresses that the stockings are a luxury item.
B The author implies that the stockings are shiny.
C The author illustrates that the stockings are delicate.
D The author suggests that the stockings are covered in jewels.

9 Many religious works include a character who gives in to temptation. For example, the Bible includes the story of Adam and Eve, in which Eve is tempted to eat a piece of forbidden fruit by a serpent. How does the character of Mrs. Sommers update this common literary character type?

A Because it is set in a city instead of a garden, Mrs. Sommers is tempted to spend extra money on her daughter's shoes instead of being tempted to take a bite from the forbidden fruit.

B Because the character of Mrs. Sommers is a mother, she is tempted to buy too many items for her children instead of being tempted to take a bite from the forbidden fruit.

C Because of the more modern setting, Mrs. Sommers is tempted to spend money on what she wants instead of being tempted to take a bite from the forbidden fruit.

D Because the character of Mrs. Sommers is poor, she is tempted to steal a pair of stockings from a store instead of being tempted to take a bite from the forbidden fruit.

10 Which of the following choices best summarizes this passage?
A After Mrs. Sommers comes into possession of fifteen dollars, she decides to use the money on clothes for her children. However, she ends up spending some of it on a pair of silk stockings for herself.

B Mrs. Sommers goes to the store to buy a new pair of stockings. While there, she also purchases a variety of shoes, cloth, gown patterns, caps, and sailor-hats for her children.
C Mrs. Sommers has an admirable plan for using the money she finds, but her good intentions don't last when she sees a beautiful pair of stockings. She spends all of the money on stockings.

D When Mrs. Sommers comes into an unexpected sum of money, she sees an opportunity for providing her children with new clothing. She plans to use her knowledge of bargains as she shops.

11 Read the statements below. One describes a theme of the passage and the other describes how this theme is developed through the passage's setting. Find a sentence from the story that supports each statement. Then write it in the box beside the statement it supports.

| Theme |  | Support from the passage: |
| :---: | :--- | :--- |
| It can be difficult to <br> live in the service <br> of others. |  |  |
| How the setting <br> helps develop <br> this theme | The setting of the <br> store provides <br> Mrs. Sommers with <br> the option of doing <br> something for <br> herself. | Support from the passage: |





2 Look at the number line below. The number $\sqrt{2}$ is between $\sqrt{1}$ and $\sqrt{4}$.
Since $\sqrt{1}=1$ and $\sqrt{4}=2$, that means that $\sqrt{2}$ must be between what two integers? $\qquad$
-

























 disease is associated with a lot of additional health
problems.
How do mutations occur?
Humans have 23 pairs of chromosomes that contain all
heir DNA. Base pairs are the building blocks of DNA. The
base guanine pairs with cytosine, while the base adenine
pairs with thymine. These pairs are commonly abbreviated
G-C and $A-T$.
Whenever a cell splits, its DNA content has to be
replicated or copied. If a single gene (or, more commonly,
a single base pair) is not copied correcly, a muta
occurs. This mutation will then be copied every time that new cell (and all its future daughter cells) splits
Are mutations harmful?
 the organism. However, if the mutated base pair or pairs blood disorder sickle cell anemia, for example, is the result cells form a crescent shape instead of the typical round shape. These blood cells can then cause "roadblocks" in arteries and veins when they are caught. Sickle cell



## All organisms have genetic information stored in their cells' DNA. The

 genetic information is contained in strands of DNA that are tightly wound into chromosomes. A gene is a small section of DNA that individual's traits.


¡s|ləכ e!u!n łuełnw $\forall \mathrm{Na}$
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28
suoụełnw
What Do You Think?
How could a mutation be beneficial? Mutations cause
variations in genes, and variations are what make us unique.
Genetic variations affect skin tone, eye color, hair color, and
height. Beneficial mutations can also make people less
susceptible to certain diseases, making it easier for them to
pass on their genes to future generations.
Try Now
What Do You Know?
The chart below compares the benefits and disadvantages of genetic mutations. Use the
information in the reading and do some outside research to complete the chart.
Benefits of Mutations
Mutations
During-Reading Activity

## inking Literacy

Name:
(Identiting, Defining, Engagaing, Analyzing, and Summarizing)

## $\square$


Analyzing: Create a challenge question for each Engage sentence. This
will help you determine if your sentence is logical or if it needs
improvement.
Summarizing: Explain in just 20 words what the main idea of the text is
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## - Reading Science

1. Which of the following statements is not true regarding mutations?

## A. Mutations are always harmful.

B. Mutations may be helpful.

## C. Mutations generate the raw material for natural selection.

D. Mutations create variety in the gene pool.
2. Which of the following correctly describes what a mutation is? A. A change in the DNA code of an organism
B. A change to a gene of an organism
C. A change to the nucleotide sequence
D. All of the above
3. There are several ways that a mutation may occur. Which of the following is not a way for a mutation to occur during the DNA replication (copying) process? A. Sections of genes can be removed.
B. Sections of genes may be added.
C. All of the organism's genes are removed.
D. An entire gene may be reversed.
4 Mutations may happen during the replication process in several ways. A point mutation happens when one "letter" of the genetic code is changed to another. In another type of mutation, sections of DNA can be added to or removed from genes. In a third type of mutation, genes, or parts of within an organism at the same time. Most mutations only occur within single cells. It is the type of cells in which these mutations occur that is important.
5 In single-celled organisms, all mutations can be passed to the next generation. Things are more complicated in multicellular organisms. Mutations that occur in the somatic (nonreproductive) cells usually only affect the individual organism with the mutation. If the mutation occurs within these types of cells, the individual organism may change. Those changes will not be passed to important for evolutionary change. Mutations that occur in reproductive cells (gametes) can be passed-on to offspring. Mutations in any particular gene sequence gene are rare. They are the only way, however, that new traits can be generated within a population.
6 All of the mutations that occur to DNA sequences are random. They do not occur as the result of a "need." For example, imagine that an organism's environment suddenly turns much colder than it was before. Its DNA will not simply generate a mutation that results in thicker fur. A mutation that results in thicker fur would need to arise naturally. An organism cannot just generate a
mutation for a specific purpose. To follow this example, consider an organism in a colder environment that has a mutation, by chance, that creates thicker fur. This individual organism will be more likely to survive to reproduce. It might be possible for the organism to pass this new trait of thicker fur, caused by the mutation, to its offspring. If it can pass on the trait, its offspring will
also be more likely to survive. If the individuals with less fur become less likely to survive, then more and more individuals with the thick fur mutation will live. Each new generation is able to pass on this beneficial mutation to the next generation. Since individuals with thick fur are more
likely to survive, they are more likely to reproduce successfully. Therefore, it will not take long before the entire population will have the mutated gene for thicker fur. The population will have evolved.
7 New traits that come from a mutation start out at a very low frequency within the population. In
fact, a mutation will usually start with one individual out of the total population. If this individual is fact, a mutation will usually start with one ind the mutation. This principle is called "survival of the fittest." The beneficial mutation will likely be passed on to the next generation. This is why mutations are the raw materials for evolutionary change. Natural selection favors beneficial mutations, increasing their frequencies, and
eliminates harmful ones. If a particular mutation happens to work well with the environment eliminates harmful ones. If a particular mutation happens to work well with the environment, that that population. On the other hand, it could have a negative effect on the organism and cause it environment and on the other traits within the organism and the population.

|  | Name: |  |
| :---: | :---: | :---: |
| I. Vocabulary Matching |  |  |
| Match each term on the right to the correct definition. |  |  |
|  | Structural changes to genes | A. |
|  | Basic unit of heredity | B. |
|  | Organized pieces of DNA | C. |
|  | Occurring in more than one form | D. |
|  | Large molecules made of amino acids | E. |

[^2]Use the clues provided to fill in the blanks.

## 3 Reading Science

 generations?
A. Somatic cells
B. Genes
C. Gametes
D. Alleles
5. What is the best way to describe how mutations relate to the concept of survival of the fittest? Choose the best answer from the choices below.
B. Mutations that allow organisms to survive are more likely to be passed-on.
C. Only those mutations that are harmful will be passed-on.
D. Mutations do not relate to survival of the fittest.
6. Imagine a population of small animals. All of the animals in this population have short legs. They all eat the leaves off of the low shrubs in their environment. One animal happens to be born with a mutation that gives it very long legs. It is the only individual in this population with suddenly there is a fire that burns all of the shrubs, so the only food source is now up in the low tree branches. How might this individual animal with the long-leg mutation affect the entire population?
A. If the mutation cannot be passed-on, the entire population may die.

C. The animal with the mutation for long legs will be more likely to survive to pass those traits on to its offspring.
D. All of the above
-
4
III. Open-Ended Response
Answer the questions below. Use additional paper if needed.

1. How does a genetic mutation occur?
[^3]
## Multiple Choice

A certain genetic mutation is found with a high frequency in populations of humans living in places that experienced a
deadly disease in the past. This same mutation is rare in


Which of the following observations would support the claim
that a particular mutation is neutral?
A The frequency of the mutation in a population, once it
first appears, tends to increase over time.
B In a given population, individuals that possess this
mutation have a greater rate of reproduction.
C The mutation is higher in populations of organisms that
produce fewer offspring and have shorter life spans.
D The frequency of the mutation goes up and down with
no observable effect on the health of a population.
Scenario
A mutation is any change in the sequence of DNA. Not all mutations affect the development of an organism. Most mutations do not change the structure of proteins; therefore, the function remains the same. Only a small percentage of mutations lead to a genetic disorder.

[^4]Date:

Reasoning:
PEER EVALUATION
Peer Name:
Rebuttal
(a) Accelerate Learning Inc. - All Rights Reserved
Students are modeling how genes produce proteins by using wooden tiles with letters to represent the genes. In produce represents the proteins.

## Word "dove" Protein <br> In this model, which of the following best represents a

A Combining many different words to create a complete message
B Creating any word that is spelled exactly the same way forward and backward
C Changing one or more of the letters so that they spell a different word, or no word at all
D Making different words, with a certain number of
How can fossils tell us about organisms that lived millions of years ago?
How can fossils tell us about organisms that lived millions of years ago?
Fossils are preserved parts or traces of animals or plants that lived in the past.
Fossils are preserved parts or traces of animals or plants that lived in the past. Fossils are clues to the past. They tell us what organisms lived in a certain place, how they looked, and what the changed over time. If you find fossils of seashells high on a mountain, you could conclude that the mountain used to be underwater at some point in time.

There are different kinds of fossils.
 as ice or amber, that preserves the material trapped inside. This kind of fossil is different from all the rest in that the actual tissues of the dead organism are still present, and in rare cases, its DNA
may even still be intact.
Mold fossils are formed when part of an organism has been buried in sediment and slowly decayed. The dead organism creates an impression in the soft sediment. The sediment then hardens into solid stone, preserving the impression in stone.
Cast fossils are the kind you probably picture in your mind when you think of fossils. For a cast解 decaying organism or part. This process is called petrification and produces stones that mimic the exact shape of the tree stump, bone, shell, or whatever part decayed in that spot.
Trace fossils are fossils that are formed not by the actual dead organism but by its activities while it
was alive. Examples of trace fossils include animal tracks preserved in stone, petrified nests, burrows, etc.

## Look Out!

Remember, fossils are rarely the actual organisms themselves. Rather, their body parts have
broken down and been replaced with mineral solutions that have hardened into rock.
Another type of model is a diorama that shows both an organism and its environment. The
environment may be in the present or in the distant past. The American Museum of Natural History in New York City shows two organisms related to human beings walking on a dusty plain in Africa. This model was based on actual fossil footprints preserved in rock. By studying the shapes of the footprints, scientists can draw conclusions about the body shapes and sizes of the organisms that made the prints.

mammoths like the one shown in the image at the top right. Woolly mammoths are extinct animals that looked a bit like modern elephants. Some lived in the icy regions close to the North Pole. Some insects have been preserved whole too. This is especially true of insects trapped in tree sap. When the sap hardens, the insect is preserved inside. This happened to the mosquito in the image to the right.

## How can we represent fossils and past environments, using models?

Scientists often use models to describe objects or events in nature. A model is a representation of animal reconstructed from just a few fossil bones. The fossils in the dinosaur skeleton shown below were used to make a model of a complete dinosaur.

a real thing. A model may be as simple as a drawing or a shape made out of clay. It may be an were used to make model of a complete dinosaur.
answers.
Collect a variety of small objects, such as stones,
leaves, coins, or marbles. Make an imprint of each
object by pressing one side of the object into a piece of modeling clay. These imprints represent fossils. Label each imprint with a number and create a key to identify each imprint. Ask your classmates to identify the source of each "fossil" (the object that made each imprint) and explain how they came up with their
The following chart lists five different locations on Earth today. Suppose that scientists found a fossil of an ancient organism in each location. Based on the type of fossil found there, decide how the location has changed over time. In particular, determine whether each location:

- used to be a forest,
used to be a tropical island, or
has not changed since the fossil was formed.

| Fossil | Where Was It Found? | How Has the Location Changed? |
| :---: | :---: | :---: |
| Seashell | The side of a mountain |  |
| Palm branch | An ice sheet in the Arctic |  |
| Imprint of a cactus leaf | A desert |  |
| Insect trapped in <br> tree sap | Under the ocean floor |  |
| Shark tooth | A wide-open grassland |  |



1



Fossil Record (B)

$-$

## Reading Science

## Name:

## Whale Evolution

1 Whales are mammals that live their entire lives in the ocean. Has this ever made you wonder how whales came to be on Earth? ever made you wonder how whales came to be on Earth? records can be used today to help determine the evolutionary history of animals. This is done by studying a few key elements of fossils. The location of a fossil can provide the time period in which the . Study. It can also tell the age of the fossil and where the amis it died. Studying the size and shape of a fossil can tell how big it was. It
can also tell what it looked like. The orientation of body parts can can also tell what it looked like. The orientation of body parts can
reveal how the animal lived. It can explain what it ate and how it moved. Fossil finds have continued to fill in much of the story of
animal evolution. The study of fossils of many animals has helped animal evolution. The study of fossils of many animals has helped
trace the evolution of whales. 2 Scientists have studied fossils for years. They studied a fossil called Pakicetus. Pakicetus is a fossil that is likely an ancestor to modern
whales. Scientists believe Pakicetus lived about 52 to 48 million years whales. Scientists believe Pakicetus lived about 52 to 48 million years
ago. This animal is believed to have had four legs. Its eyes were
ago. This animal is believed to have had four legs. Its eyes were
close together on top of its head. The location of the eyes on its head close together on top of its head. The location of the eyes on its head suggests that Pakicetus
looked for things above the water. The ear bones are thick, but the jawbone lacks the space for the fat pad. This combination shows a structure between modern terrestrial mammals and marine mammals. These animals are also known as cetaceans. The structure and wear pattern of its teeth suggest that Pakicetus was carnivorous and ate fish and small animals.
3 About 50 to 48 million years ago, an amphibious mammal called Ambulocetus hunted in the shallow ocean. Fossils of Ambulocetus show that it was about 3 meters long. It had back legs, which were more suited for swimming than for walking. It could hear well underwater, and its land and in water. Ambulocetus probably hunted much like modern crocodiles.
4 Fossil records of the next generation of early whales are between 49 and 35 million years old. These fossils revealed animals that still had four limbs. These limbs were shorter and some had
tail flukes. They probably did not use their hind limbs for locomotion. Instead they swam by moving their tails up and down. Were these animals truly aquatic or still amphibious? One fossil
 at least some species of early whales still gave birth on land

## .inking Literacy



## Reading Science <br> (4) <br> 1. How do Archaeologists use fossils?

A. Archaeologists only use fossils to discover how birds evolve over time.
2. Which of the following can help to determine the age of a fossil?
A. Shape of the fossil
B. Orientation of body parts
C. Location of the fossil
D. Size of the fossil
3. Which part of Pakicetus anatomy most suggests that it is ancestor of whales? A. It had eyes near the top of the head.
B. It had a tail fluke.
C. It had teeth consistent with a carnivorous diet.
D. It had four legs.
Fossil Record (B)
5 Basilosaurus was an early whale that lived between 40 and 34 million years ago. These fossils
 meters long. This is comparable to modern whales. Fossils of Basilosaurus indicate that they were adapted to an entirely aquatic life. They had tail flukes. Their forelimbs were tiny. They were probably used only during mating. Some modern whales have teeth that are very similar to those found in Basilosaurus fossils.
6 Fossil evidence provides insight into the actual evolutionary path of animals. Whale evolution łunч of бu!?
 earning about prehistoric times. They also help us gather information about the animals of whales today.

## - Reading Science

 find the answer to the riddle.$$
\begin{aligned}
& \text { 1. Data about fossils that includes number, type, and location } \\
& \text { 2. Impressions of organisms left in rock layers }
\end{aligned}
$$

$-\mathrm{O}--\frac{}{2}$

 then compacted


Fossil Record (B)
6. Fossils of Basilosaurus resemble that of modern whales because-

A. Location of the hind limbs of the fetus
B. Position of the nostrils
C. Position of the head of the fetus
D. Location of the fossils A. there are similarities in both anatomy and size. B. they both have the exact same fossil coloring.
C. they lived during the same time period.
D. there are similarities in where the fossils were found.
Concept Attainment Quiz





## II. Identification

Use the clues provided to fill in the blanks.

| Word Bank |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: |
| $\begin{array}{c}\text { chronological order } \\ \text { radioactive dating }\end{array}$ | $\begin{array}{c}\text { common ancestry } \\ \text { sedimentary rock }\end{array}$ | $\begin{array}{l}\text { fossil record } \\ \text { metamorphic rock }\end{array}$ | nitrogen dating |  |  |  |  |
| timeline |  |  |  |  |  |  |  |$]$

The total number of fossils that have been discovered and the information derived from
them is called the
Fossils can usually be found in layers of
3. The approximate age of fossils can be determined by putting them into

entary

[^5]
1 The following diagram shows where, in layers of rock, fossils

The information in the diagram supports which of the following
A Birds descended directly from trilobites and dinosaurs.
B Trilobites became extinct before dinosaurs appeared on Earth.
C Jellyfish live longer than any other organism on Earth.
D Mammals did not appear on Earth until after the dinosaurs went extinct.
III. Open-Ended Response
Answer the questions below. Use additional paper if needed.

1. What does the fossil record document?
How does the fossil record help support the theory of evolution?

| Organism | Fore <br> Foot <br> Toes | Skull <br> Length <br> $(\mathbf{c m})$ | Height <br> $(\mathbf{c m})$ | Molar <br> Length <br> $(\mathbf{c m})$ | First <br> Appeared <br> $\left(\mathbf{m y a}^{*}\right)$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Equus | 1 | 25 | 135 | 4.8 | 3.5 |  |
| Pliohippus | 1 | 18 | 120 | 3.9 | 5.2 |  |
| Merychippus | 3 | 10 | 100 | 3.7 | 26.5 |  |
| Mesohippus | 3 | 7.5 | 52 | 2.8 | 35 |  |
| Orohippus | 3 | 4 | 47 | 2.5 | 47 |  |
| Eohippus | 4 | 3 | 38 | 1.7 | 50 |  |
| ${ }^{*}$ mya = millions of years ago |  |  |  |  |  |  |

Over the evolutionary history of the horse, there have been several
trends in how their bodies have changed. Which trend shows a decrease?
A The number of toes on the fore feet

$$
\begin{aligned}
& \text { B The length of the skull } \\
& \text { C The height of the animal } \\
& \text { D The length of their molars }
\end{aligned}
$$

Over the evolutionary history of a certain kind of fish, the trend is for an increasing number of teeth. The data table provides information for several examples.
5

| Millions of Years Ago | Representative <br> Species | Number of <br> Teeth |
| :---: | :---: | :---: |
| 120 | W. columbae | 14 |
| 97 | W. arcus | 20 |
| 85 | W. arundinum | 26 |
| 66 | W. ipsum | 38 |
| 49 | W. ambulatus | 42 |

A fossil of a new species of this type of fish (W. amatequorum) is discovered. The complete fossil skeleton is found, and it has
34 teeth. The most reasonable estimation for the age of this fossil would be which of the following?
A About 20 million years old
B About 30 million years old
C About 70 million years old
D About 100 million years old
4 This diagram provides information on the diversity, in number
of species, for four major groups of animals over time.

What is the only group that experienced an increase of diversity between 413 million years age and 265 million years ago?
$\begin{array}{ll}\text { A } & \text { Mollusks } \\ \text { B } & \text { Arthropods } \\ \text { C } & \text { Echinoderms } \\ \text { D } & \text { Chordates }\end{array}$
Fossil Record

## Claim-Evidence-Reasoning

deposited in deeper layers are older than ones located in layers closer to the surface.

Fossil Record


## Claim-Evidence-Reasoning

Fossil Record
Prompt
to support your claim.

Claim
Evidence:
Reasoning:
PEER EVALUATION
Peer Name:
Rebuttal:

## $8^{\text {th }}$ Grade Social Studies

LEAP 2025 PRACTICE

## Directions:

Read each source and question. Circle your answer by choosing the correct choice.

1. Use the table and your knowledge of social studies to answer the question.

Top Louisiana Exports, 2014

| Goods Exported from Louisiana | Amount Exported in <br> billions of dollars |
| :--- | :---: |
| petroleum and cooal products | $\$ 25.7$ |
| basic chemicals | $\$ 4.1$ |
| grain and oilseed milling products | $\$ 3.7$ |
| resins and synthetic fibers | $\$ 3.5$ |
| agriculture and construction machinery | $\$ 1.3$ |

Which statement best explains the importance of Louisiana's exports to international trade?
A. Louisiana exports petroleum and coal products mainly by container ship.
B. Louisiana exports valuable natural resources and raw materials to other nations.
C. Most goods exported from Louisiana are consumer products sold in stores abroad.
D. Most goods exported from Louisiana are sold to tourists in other nations.
2. Use the timeline and your knowledge of social studies to answer the question.
Events Related to the Cotton Industry in Louisiana

Which statement best describes a feature of the cotton industry in the economic development of Louisiana?
A. Louisiana farmers have reduced the number of planted acres of cotton over time.
B. Demand has had a large impact on the amount of cotton production in Louisiana.
C. Technological innovations have usually increased the cost of cotton in Louisiana.
D. Louisiana has produced more cotton fabric and clothing than any other state.
3. Use the maps and your knowledge of social studies to answer the question.

## Louisiana Coastal Wetlands, 1853 and 1978

These maps show the Isles Dernières in southeastern Louisiana.


Which factor most influenced the changes shown on the maps?
A. rising sea levels that caused coastal erosion
B. bridge construction that caused the shoreline to erode
C. offshore oil drilling that changed the seafloor
D. development of the coast that changed the shoreline

## What is the Census?

The census is a count of every person in our country. It's our government's way of keeping track of our population. Every ten years, the government does a major count of every family and person, in every community across the country. The results help the government figure out what communities need and who should get what.


The Framers thought the Census was so important they put it at the very beginning of the Constitution!

## How Did the Census Start?



There are currently over 327 million people living in the United States.

Article I, Section 2 of the U.S. Constitution called for a count of each state's population within three years after the first meeting of the new Congress. (And every ten years after that.) The population count would help our newly founded government figure out how to distribute the number of "seats" (which reflects the number of members) each state would get in the U.S. House of Representatives. That count was the first U.S. census. It happened in 1790. U.S. Marshals from district courts visited every home in the country-which only had thirteen states, three districts, and one territory at the time-and took a count of the men, women and children.

## How Does It Work?

Since the first census a lot has changed. For one, U.S. Marshals no longer do the counting. Instead, we have a Census Bureau, an organization with thousands of people who work daily to complete the huge task of counting each and every person living in the United States. Every ten years, the Census Bureau distributes census surveys across the country. By March, households receive letters with instructions for how to complete the survey online, over the phone, or by mailing in a paper form. The Census Bureau also sends census workers called "door knockers" to rural areas and to houses that don't respond to the survey by early April to collect answers in person, too.


## What Happens After Everyone Gets Counted?

Once everyone is counted, population data is shared with the President and U.S. Congress. States may lose or gain seats in the House of Representatives based on how their population has changed. The process of redistributing the House's 435 seats among the states is called apportionment, and it only happens after a census count. The seats are redistributed, or reapportioned, according to a representation ratio which helps ensure that each representative represents roughly the same number of people per state. Today, each representative in the House represents a little more than 747,000 people!

## Who's Counted?

A lot has changed about how people are counted. For one, now everyone is included. The first census counted white males and females and categorized them by age and gender. All other free persons, meaning mostly free blacks, were counted, too, but reported in one single category. Enslaved blacks were grouped into another categorybut only counted as $3 / 5$ th of a person. Native Americans weren't counted at all, not until 1870. Today, the Census Bureau counts everyone equally. Your race doesn't matter and neither does citizenship status. The census count is a resident count, not a citizen count. If you live in the United States (or its surrounding territories), you must be counted.

## Is it Hard to Count Everyone?



Counting every single person in the U.S. is a colossal task. Special workers called enumerators are hired by the Census Bureau help ensure an accurate count. But our country has hundreds of millions of diverse people, and some groups are harder to reach than others. Children ages 0-5, people who don't speak or read English well, the homeless, and some racial minorities have historically been hard for the Census Bureau to count. It's important to try to reach "hard to count" communities, because when people aren't fully counted, their communities miss out on the hundreds of billions of dollars the federal government distributes based on census data.

## What Will the Census Ask?

The census only takes about ten minutes to complete. Only one person in your household needs to fill out the form. The census will ask for the number of people who live or stay at your home, their ages, gender, relationship to one another, and race. The census will also ask if each person is of Latino, Hispanic, or Spanish descent and if your family owns or rents your home. Any personal information like your name or address is kept private. The Census Bureau can't share that information with anyone, not even the FBI!


## How Will the Census Affect Me?

Data from the census can be used to decide which communities will get money for new schools, better public buses and trains, and even hospitals. Businesses and city planners use the data to decide where to build factories, roads, offices, and stores, which help to create new jobs and improve neighborhoods. And considering that you'll be old enough to vote before the next census comes along, the results will determine the number of representatives you'll elect for your state and national governments and the amount of electoral votes your state will have in the 2024 and 2028 presidential elections. Make sure you're counted!

Foldable. Define each word from the lesson and write a sentence using the word. Then sketch an image that will help you to remember it's meaning in the space under each word. When you're done, fold and cut your foldable according to the directions and add it to your notebook or binder.
Census
A. Misinformation Fake Out. It's important that people have correct information about the census. Don't be fooled by these deceptive social media posts. Read each post and fix it in the space below by sharing a corrected version.
Candice Tracy Counter
Get ready for the census in 2021. Don't
forget to fill out your form! \#becounted
\#census2021
2.278 PM-6 December 2019

| Isaiah Herman Wright |  | +2 follow |
| :---: | :---: | :---: |
| The census counts citizens. If you're not a citizen, no need to fill out the form. \#citizencount \#census \#nowyouknow |  |  |
| 27 * +2 |  |  |
| AM-9 March 2020 |  |  |


Candice Tracy Counter $\quad \therefore$ Follow

B. The Census \& You. Complete the chart by thinking about how each group listed will use the census data and how that data will eventually impact you! Write your answers in the space provided.

## The Census \& Me

How the Census Affects You...

| National Government | State and Local Government | City Planners | Businesses | You! (How will census data impact you?) |
| :---: | :---: | :---: | :---: | :---: |
| The national government will use census data to... | State and local governments will use census data to... | City planners will use census data to... | Business will use census data to... | Here's how the census will impact me... |

C. Hard to Count. Hard to count communities exist all over the United States and vary from location to location. What do you think would make a community hard to count? Read through some of the possible reasons, then for each group list the factors that could prevent an accurate count and think of possible solutions to overcome them.


- Access to information
- Location
- Access to resources in languages other than English
- Lack of permanent address
- Inability to complete the form
- Fear that information will not be kept private

| Group | What do you think <br> contributes to this group <br> being undercounted? | What could the Census <br> Bureau do to improve their <br> count of this group? |
| :---: | :---: | :---: |
| Children ages 0-5 |  |  |
| Homeless |  |  |
| New Residents |  |  |

D. Primary Source. Read the excerpt and answer the questions. Some words have been defined for you. Others you'll have to figure out on your own. (Don't worry, we know you can do it!)

## Article I, Section 2 of the U.S. Constitution

[Representatives and direct Taxes shall be apportioned among the several States which may be included within this Union, according to their respective Numbers, which shall be determined by adding to the whole Number of free Persons, including those bound to Service for a Term of Years, and excluding (not counting) Indians not taxed, three fifths of all other Persons.] ${ }^{1}$ The actual Enumeration shall be made within three Years after the first Meeting of the Congress of the United States, and within every subsequent (next) Term of ten Years, in such Manner as they shall by Law direct. The Number of Representatives shall not exceed (be greater than) one for every thirty Thousand, but each State shall have at Least one Representative; and until such enumeration shall be made, the State of New Hampshire shall be entitled (able) to chuse (choose) three, Massachusetts eight, Rhode-Island and Providence Plantations one, Connecticut five, New-York six, New Jersey four, Pennsylvania eight, Delaware one, Maryland six, Virginia ten, North Carolina five, South Carolina five, and Georgia three.
${ }^{1}$ The 14th Amendment, ratified in 1868, changed the rule that enslaved blacks be counted as $3 / 5$ th of a person.

1. How were representatives and direct taxes apportioned among the states?
2. When did the Constitution change to count enslaved blacks as whole persons?
3. In the reading you learned what an enumerator is. Now, use that knowledge and the context clues from the excerpt to write a definition for enumeration.
4. What was the representation ratio set by the U.S. Constitution?
5. How many representatives did each state have before the first census count?
E. Practice Survey. Directions for completing the census will soon be making their way to your door. Practice by answering a few sample questions below. The questions here will cover the first 2 people in your home. The real census will have room for everyone living or staying in your home.

## Start here or go online to complete your 2020 Census questionnaire.

Use a blue or black pen.

## Directions: Before you begin, use the guidelines here to help you get an accurate count of all the people in your home.

- Count everyone, including babies, living or sleeping in your home.
- Count anyone who doesn't have a permanent address who is staying with you on April 1st.
- Do not count anyone who lives away from your home on April 1st even if they will return to your home later (i.e. anyone away at college, in the Armed Forces, staying in a nursing home, jail, or prison.)

1. How many people live or stay in your home?

Number of people $=$ $\square$
2. Is your house, apartment, or mobile home owned or rented? (Check one)

- Owned?
- Rented?
- Neither?

3. Answer the following questions about each of the people who live in your home. Start by listing the person who pays rent or owns the home as Person 1. If that person does not live in the home, you may start with any person.

## Person 1:

a. First and Last Name
b. Gender (Check one)

- Male
- Female
c. Age and Birthday (if the person is less than a year old, write 0 for the age)
d. Hispanic, Latino, or Spanish descent?
- Yes
$\square$ No
e. Race or Ethnicity

Person 2:
a. First and Last Name
b. Gender (Check one)

- Male
- Female
c. Age and Birthday (if the person is less than a year old, write 0 for the age)

d. Hispanic, Latino, or Spanish descent?
- Yes
- No
e. Race or Ethnicity
*Optional Activity. Create a poster or PSA (public service announcement) to get the word out about the census and the importance of being counted. Be sure to include when the census will be happening, how people can complete it, and two other pieces of information about the census that you think will help your community ensure a complete and accurate count.


## Plaginta Power  WITH THE U.S. CENSUS

The number of members a state has in the House of Representatives and the amount of money a state gets from the federal government are based on that state's population. Completing the census survey can plug your community into valuable resources.


YOUR COMMUNITY RECEIVES SERVICES FUNDED BY THE STATE

Medical Assistance - \$311b
School Lunch Program - \$18b
Assistance for Needy Families - \$17b
Medicare - \$70b
Federal Pell Grant - \$29b

[^6] Funds Distribution, U.S. Census Bureau 2017
U.S. GOVERNMENT RECEIVES POPULATION DATA FROM THE CENSUS BUREAU

INDIVIDUAL COMPLETES THE U.S. CENSUS

STATES ARE ASSICNED ELECTORAL VOTES

STATES GET A PORTION OF THE FEDERAL BUDGET TO FUND SERVICES

## 3 Take Action!

Read the situations and check the actions that you think would be the most effective way of making a positive change.

Situation One: There are too many stray cats and dogs in your town! Which two things would you do?

- Hold a bake sale to raise money for the local animal shelter.
- Write an editorial for the newspaper telling readers about the problems homeless animals face.
- Convince local veterinarians to donate their time for a spay and neuter clinic once a month.
- Set up an adoption service to take animals off the streets and into loving homes.
- Put food out on your back porch.

Situation Two: Kids in school are getting into fights more often than ever! What two actions would you help with?

- Have a rally at the school where a guest talks about non-violence and how to cool down.
- Volunteer as a mentor for younger students and discuss ways to deal with anger.
- Share information about teen violence with the students in your school.
- Ask the school board to add a class about anger management and communication skills to the curriculum.
- Try to get into fewer arguments with your friends and family.


## Civic Action and Change

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- Try to get into fewer arguments with your friends and family.


## INFORM

Get information on what the facts are, what problems exist, and who can help make the change you want.

Give an example of something you can do in this step.

What acronym do these three words create?

## ACT

Bring attention to the cause through protests, meetings, and petitions. Inform the public. Get laws passed that address your problems \& meet your goals.

## MAINTAIN

Major change takes time.
Continue to fight for change by keeping informed and staying focused. One success can lead to another.


## Recipe for Change

Civic action describes all the things people do to bring about social and political change. A democracy like ours is based on citizens engaging the government. When people take civic action, the government responds. Civic action can involve a million people marching in Washington, D.C. or a few people calling attention to a problem in their own hometown. The Civil Rights Movement of the 1950s and 1960s was a time when thousands of Americans were fighting for change, and their civic action was highly visible in the news media. Civic action still happens every day. Have you heard or seen any recent examples?

## Civic Action Requires a Plan

Activism happens when people see a problem, gather together with a set of goals, and make a plan. Sometimes civic action plans take place at the local level. For example, people might set a goal to turn an abandoned lot into a playground. To achieve a bigger goal, such as getting a law changed, the group will need to take their plan to the state or national level and get lawmakers to listen.

## Civic Action is a Process



Civic action on the state or national level isn't like a school project that is over in a few weeks. It takes years or even decades to make changes in government and society. Think about all the work involved! First, a group that wants change must educate the public and lawmakers about the problems that exist. Sometimes this means changing peoples' attitudes and misconceptions. Then, the group must work to get laws passed, make sure the laws are carried out correctly, and maybe even defend the laws against challenges in the courts. It takes all three branches of the government to make change, as well as the "fourth branch"-citizens!

## Three Steps of Civic Action

Every group or person may have a different goal for change, but the process they will go through to make change is always the same. Civic action has three main steps:


## Women

Today it is hard to imagine that not so long ago, women in the United States had no political or social rights. For example, they were not allowed to vote, own property, attend college, or even be doctors or lawyers. In 1848, the first women's convention met to discuss the need for change. These meetings grew into what became the Women's Rights Movement. Thanks to that hard work, women got the right to vote when the 19th Amendment was passed in 1920.
In the 1960s, women's rights activists focused on a woman's right to privacy and on equal opportunities for women at school and at work. For example, the Equal Pay Act of 1963 promised equal pay for equal work. Employers were prohibited from discriminating based on gender. They also could not discriminate against women who were pregnant or had young children. Modern women continue to face equality issues, and many national groups are fighting for women's equality.


## Farm Workers



In the late 1960s, migrant farm workers began to bring awareness to the poor working and living conditions of minorities who worked for large producers. They created the United Farm Workers Union so the workers would be able to organize. This group to made demands for improved conditions. The UFW organized the most successful boycott in history when they convinced people to stop buying grapes. After five years, vineyard owners were forced to sign labor contracts protecting workers' rights. The Migrant and Seasonal Agricultural Worker Protection Act of 1983 put some key laws in place to protect farm workers from employer abuse, but many problems continue. The movement to protect farm workers' rights is still very active today.

## People with Disabilities

Over 50 million people in the United States have at least one physical, mental, or learning disability. These disabilities have been the basis for discrimination in public places, schools, and jobs. Disabled people also had limited access to public services like transportation.

The Civil Rights Act of 1964 made it illegal to discriminate against people because of their race, religion, or gender-but not because of disability. People with disabilities fought for their rights by talking to their elected representatives, writing letters and articles, and trying to meet with lawmakers. When companies and individuals refused to meet with them, disability rights activists used more extreme actions to have their concerns heard. You will learn about the two major laws that came out of this movement later in the lesson.


## American Indians



The protest sign refers to discrimination faced by African-Americans, who before 1964 were forced to sit at the back of public buses in many places.

In the 1960s and 1970s, Native Americans living on reservations were faced with extreme unemployment, lack of health care and education services, and very poor living conditions. The Native history and lifestyle were constantly challenged by new laws and threats to the land on which the people lived. Activists fought for equal treatment and protection of traditional ways by bringing attention to these injustices. As a result of their work, Congress passed laws protecting Indian land. Successful challenges led to protection for Native American hunting and fishing

People with Disabilities



Sequencing,

Directions: Cut out the 10 boxes and glue to the IAM worksheet in the correct order. Read each box carefully to see how these movements met specific goals.

Passing ADA didn't fix everything. People needed to understand how to be sensitive to the needs of disabled people. Some i businesses didn't want to pay to install accommodations so disabled people could be included. This kind of education ! became a new goal for the movement.
IThere were other problems that had not ¡been solved. Years later, a law called :IDEA (Individuals with Disabilities
! Education Act) helped children get access ;
ito public schooling despite their disabilities. IDEA requires public schools to provide a "free appropriate public i education" that meets a disabled student's ineeds.
People with disabilities wrote 'Discrimination
! Diaries" that talked about daily experiences
I with barriers and discrimination and sent
them to lawmakers. Activists also blocked
Greyhound buses demanding wheelchair lifts.

## Facts

- $19 \%$ of the population in the U.S. has at least one disability.
- $8 \%$ of kids under 15 are disabled.
- Disabled people make up the largest minority group in the U.S.

Facts

- In 1971, girls made up only 7\%
of high school sports participants.
That same year, 42\% of college students were women.



## Problems

- People with disabilities were not able to access public places and use public transportation.
- Laws banning discrimination did not protect the disabled.


## Problems

Girls lacked sports teams and after school activities at school because schools focused their money on boys' ${ }^{\prime}$ activities.
I Women were discriminated against when they applied for college \& jobs. !

Groups used court cases, petitions, protests, and Congressional hearings to pressure the ! government to create a law that gives ; women and girls equal access to educational :and extracurricular activities.

## IThe Americans with Disabilities Act

 (ADA) was signed into law by President Bush in 1990. It banned discrimination based Ion disability in employment, public services, itransportation, and communication. It also helped define a disability as an impairment that limits one or more major life activities.¡ Getting Title IX passed was a huge victory, but was met with resistance by ! many. The athletic part of the law I required that there be equal funding and opportunity for male and female athletic teams. Coaches and supporters of male ! teams stated that funding for male sports iteams suffered and that there was now :discrimination against the guys!
These arguments against Title IX have ! been dismissed by the court system, but ithe subject is still controversial.
Supporters of the law continue to watch !and make sure that women get equal lopportunities in school and in athletics.
iTitle IX(9) was signed into law by President Nixon in 1972. It banned gender discrimination in all education programs and !extracurricular activities in schools funded by ;the government. Now $40 \%$ of high school sports players and $57 \%$ of college students !are female!
A. Vocabulary: Select the best synonym for the underlined word in each sentence.
_ 1. Discrimination is one form of unfairness.
A. discrimination
2. All of the groups in this lesson faced unequal treatment.
B. awareness
__ 3. Protests and boycotts creates public understanding about a civil
C. injustice rights cause.
B. Make it Accessible! Look at each image. Decide whom each accommodation helps and how it helps.


Laws that allow guide dogs inside public places.
Helps Whom? $\qquad$

Helps How? $\qquad$


Closed captioning prints what is being said on TV. Helps Whom? $\qquad$

Helps How? $\qquad$
$\qquad$


Ramps as an alternative to stairs or steps.
Helps Whom? $\qquad$

Helps How? $\qquad$

Bumpy pavement beside train tracks or roads.
Helps Whom? $\qquad$

Helps How? $\qquad$
C. And in This Corner... Every group met opposition during its fight for change. Match each movement with its opposition.

## The Movement

1. The Equal Pay Act 1963 made it illegal for men and women to get paid different wages for doing similar work.
2. The Americans with Disabilities Act requires all buildings used by the public to be accessible for the disabled.
3. After court cases involving Native American land rights the US government allowed tribes to hunt and fish on their reservation and on land that had been taken away and sold to white settlers.
4. The Agricultural Worker Protection Act of 1983 required safe transportation and housing for migrant farm workers and made employers tell workers they will receive in exchange for their labor.

## The Opposition

A. Changing existing buildings, especially old ones, is really expensive. The government is not helping pay for the changes that have to be made.
B. Other countries don't have strict labor laws. We can't compete with their cheap fruits and veggies if we have to spend money on houses and buses!
C. Women miss more work because they are usually the ones to stay home when a kid is sick. They also take maternity leave when having a baby.
D. It is not fair that some Americans can use land when other Americans are not allowed. Being a part of one group shouldn't give them more rights.

## Civic Action and Change

Directions: Create your own I AM chart. Complete this chart by answering the questions and thinking like a civil rights mover and shaker!

## Inform!

 Title: $\qquad$

Message: What do you need to say?
Who needs to hear it?
Outcome: What does the change look like?
Message: What do you need to s
Who needs to hear it?

Maintain!
Keep it Up! What is the next step for your movement? How do you continue your work?

Action: How will you take the message to the audience? (You can write it and draw it!)


[^0]:    ${ }^{1}$ red weed: a fictional plant native to Mars
    ${ }^{2}$ redoubt: temporary fortification, or wall built as a defense
    ${ }^{3}$ putrefactive: rotting, having a foul odor

[^1]:    ${ }^{1}$ botanical: relating to plants
    ${ }^{2}$ impunity: being free from punishment or harm
    ${ }^{3}$ fermenting: being in a state of intense activity

[^2]:    II. Identification

[^3]:    A The genetic mutation was present in all populations but did not get passed on in places where humans did not

    B This genetic mutation codes for the production of a
    
    C The disease causes the genetic material of humans to
    mutate just before it causes their disease.

    《
    

    ## pue әseəs!p s!чł dojəләр иo!łełnu s! 47 प!!M suewnh a

    C The disease causes the genetic material of humans to
    hen spread it to other humans without the mutation

[^4]:    (pictured below) is when a person's iris consists of different colors or when one iris External Data
    Heterochromia (p

[^5]:    . Scientists can determine the relative age of rocks using a technique called

[^6]:    Numbers taken from the Uses of Census Bureau Data in Federal

