Context Clues

Then and Now:

Medicine

The practice of medicine has changed over time. So have the ways in which people take care of their bodies. Read about some health practices that are different today from the way they used to be.

Noday we think of barbers as people who cut men's hair. L However, barbers in the past did much more serious cutting. They did the work of surgeons, performing operations and cutting out diseased organs. They also did the work of dentists, pulling out rotten teeth. In the Middle Ages, people believed that infections were caused by "bad blood." To cure these diseases, barbers used bloodletting, a medical remedy in which leeches sucked blood from a patient's veins.

As you can imagine, people didn't go to a barber for something like a manicure or a pedicure. Beauty and skin-care treatments for hands or for feet were not what barbers did when they weren't cutting hair or beards. They were performing life-and-death medical procedures instead.

For a long time, people knew nothing about germs. In the 1800s, the French scientist Louis Pasteur showed that those tiny living things spread disease. Until Pasteur, people also didn't know

the importance of cleanliness. It took years before barbers or doctors even washed their hands before they examined and then treated the next patient.

Word

Wisdom

Another of Pasteur's great contributions to medicine was his recognition of the importance of vaccines, which can prevent many illnesses. Today physicians often inject healthy patients with these substances, which contain weakened germs.

Much more has changed since Pasteur's time. Interestingly enough, some of the old practices are being used again. Doctors have found that leeches may help patients recover from surgery. Many people today also use some of the herbs that were so popular in the past. Plant parts are used by themselves to cure certain problems, or they are used along with other medical treatments.

What about medicine in the future? It seems likely that many things will change while others will remain the same.

Context Clues Strategy

Look for What the Word Is Used For

EXAMPLE: The dentist took *x-rays* to check Jay's teeth for hidden cavities.

CLUE: The words to check Jay's teeth for hidden cavities explain what *x-rays* are used for.

Here are steps to figure out the meaning of the word *remedy*, which appears in the essay about medicine.

Read the sentence with the unknown word and some of the sentences around it.

To cure these diseases, barbers used bloodletting, a medical **remedy** in which leeches sucked blood from a patient's veins.

PLOOK for context clues. What words can you find that tell What the Word Is Used For?

The words to cure these diseases tell that a remedy was used for curing people.

Think about the context clues and other helpful information you may already know.

My mom says that chicken soup is a *remedy* for a bad cold. It makes me feel better when I'm sick.

Predict a meaning for the word.

A remedy is probably a "cure for something."

Check the Word Wisdom Dictionary to be sure of the meaning. Decide which of the meanings in the dictionary fits the context.

The word remedy means "something that relieves pain."

1 Unlock the Meanings

Practice the Strategy Here is another boldfaced word from the essay about medicine on page 50. Use the context clues strategy on page 51 to figure out the meaning of the word.

	Read the sentence that uses the word <i>vaccines</i> and some of the sentences around it.
V -	ook for context clues to the word's meaning. What words can you find that tell What the Word Is Used For
i	Think about the context clues and other helpful nformation you may already know.
	Predict a meaning for the word <i>vaccines</i> .
	Check your Word Wisdom Dictionary to be sure of the
	meaning of the word <i>vaccine</i> . Write the dictionary definition.

Use Context Clues The two words you have learned so far are checked off in the Word List. Write the other eight words from the Word List in the first column. Use context clues to predict a meaning for each word under "Your Prediction." Check the meanings in the Word Wisdom Dictionary. Write the definition under "Dictionary Says."

surgeon infection remedy manicure pedicure germ examine

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Your Prediction

Dictionary Says ✓ vaccine physician herb

2

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3

3

7

:)

Process the Meanings

WORD LIST	Use the Words Correctly in Writing Rewrite each
surgeon	sentence in your own words. Include the word in parentheses in your sentence. You may add a new ending to the word.
infection	In your sentence. You may add a new ending to the word.
remedy	My mother uses parts of a plant to improve her memory.
manicure	(herb)
pedicure	
germ	2 Be sure to clean a cut so you don't get an illness.
examine	(infection)
vaccine	·
physician	
herb	The doctor gave me a substance with weakened disease
	germs so that I won't get measles. (vaccine)
	4 Have you ever had a beauty treatment for your feet and
	toenails? (pedicure)
	5 The doctor will look closely at your throat to see why it is
	sore. (examine)
	Match the Definitions Write the word from the column
	on the right that matches each definition.
	6 tiny living thing remedy
	that causes illness

Apply What You've Learned

Relate the Meanings Answer the questions. Use the boldfaced words in your answers.

1.	How can a surgeon prevent an infection?
	Why would a physician give someone a vaccine?
3	When would someone receiving a pedicure want to examine his or her feet?
<u> </u>	How could a person giving a manicure keep from spreading germs?
9	For what might a person use an herb as a remedy?



Write It: Would you like to be a medical doctor when you grow up? Write about the special skills a medical doctor might need and whether you would like to learn those skills. Use as many words as you can from the Word List on page 54.

Latin and Greek Roots

Word Wisdom

Healthy Feet Are Happy Feet:

Feet and Fashion

Do you know any people who have problems with their feet? Many do. Aching feet make standing and walking painful. Why do so many feet hurt?

podiatrist named Simon J. Wikler explained the history Nof foot problems. Long ago, people had healthy feet. Back then, they used manual labor to get things done. Workers either went barefoot or they wore sensible shoes that protected their feet.

At that time, working people were pedestrians. They walked wherever they needed to go in their flat, plain shoes. The lucky ones had bicycles and pushed the pedals with their plain, unstylish shoes. Wealthy people rode in carriages and rarely walked. They paid others to do their work. Many wore stylish shoes with high heels and pointed toes. Some workers admired rich people and put them on pedestals. They gazed at their fancy shoes with affection. The workers longed for the day when they could afford to be stylish.

With the Industrial Revolution, people began to use machines to

do their work. Workers had more money and did less manual labor. They wanted stylish shoes. Shoemakers rushed to manufacture these shoes. New machinery made them easier and cheaper to produce. Soon many people could afford stylish shoes.

The front of these shoes was shaped to a sharp point. The wearer's toes were squashed together. The shoes were like manacles, but instead of confining people's hands, they confined their feet. However, no one noticed the defects in these shoes. Instead, they forced themselves to stand and walk in them. In spite of the pain, they beamed happily. Their facial expressions showed their pride in their shoes.

Soon millions of people had crippled feet. Fortunately, in the 1930s people wanted a more modern look. It was the Jazz Age, and people wanted comfortable shoes suitable for dancing. The toes of shoes became broader, and the heels became shorter.

But beware! Popular styles change. Don't sacrifice your feet to fashion!

Practice the Context Clues Strategy Here is one of the boldfaced words from the essay on page 56. Use the context clues strategy you learned in Part 1 on page 51 to figure out the meaning of this word.

	Reac the sentence that uses the word manacles and some of the sentences around it.
2	Look for context clues to the word's meaning. What words can you find that tell What the Word Is Used For?
	Think about the context clues. What other helpful information do you know?
Ø	Predict a meaning for the word <i>manacle</i> .
	Check your Word Wisdom Dictionary to be sure of the meaning of the word <i>manacle</i> . Which of the meanings for the word <i>manacle</i> fits the context?

1 Unlock the Meanings

Knowing the meanings of Latin and Greek roots can help you figure out the meanings of new words. Several words you learned in Part 1have a Latin or Greek root. Each root relates to health.

Latin Root: manu meaning: hand

English word: manicure

meaning: a treatment for hands and

fingernails

Latin and Greek Root: ped, pod

meaning: foot

English word: pedicure

meaning: a treatment

for feet and toenails

Latin Root: fac, fect, fic meaning: to make;

to do; easy; face

English word: infection

meaning: an illness caused by germs

WORD LIST

podiatrist

pedestrian

manual

pedal

pedestal

affection

manufacture

manacle

defect

facial

Sort by Roots Find these roots in the Word List. Write each word on a line below the correct root. Remember that the spellings of roots can change. Think of other words that come from the same Latin or Greek roots. Write each word in the correct column.

Latin Root: manu

Latin and Greek Root: ped, pod

Latin Root: fac, fect, fic

Health

Prefix Meaning opposite of

Example

de- (opposite of) + fect (to do) = defect

Use Roots and Prefixes Circle the root and any prefix you find in the boldfaced words below. Use context clues, roots, and prefixes to write the meaning of each boldfaced word. Check your definitions in a dictionary.

- 1 The podiatrist said I needed special shoes to reduce foot pain.
- 2 Don's cat shows affection by rubbing Don's ear with her nose.
- Becky has a new bike, but her feet don't reach the pedals.
- Wear a bike helmet so you don't get any head or facial injuries.
- 5 The prisoner's hands were locked in manacles.
- 6 We have a leaf blower, but I prefer the manual task of raking leaves.
- Is there a bump on my nose, or does that mirror have a defect?
- 3 The famous statue is on a pedestal, so you'll be able to see it easily.
- 2 Early New England mills manufactured shoes and woolens.
- 10 Main Street has a narrow lane for pedestrians to walk safely.

Process the Meanings

podiatrist manual pedestrian pedal pedestal affection manufacture

manacle

defect facial **Complete the Paragraph** Fill in each blank with a word from the Word List. You may add an ending to some words.

Pablo is a sculptor who makes	statues of people. He likes to
use tools that are 🚨	by a company
that is fifty years old. Pablo enjoy	75 2
work better than using machines	. The statues' faces are special
because he works hard sculpting	each person's unique
3 featu	res. Pablo spends so much
time with his statues that they se	em like family members. He
has great 4	for all of the statues, even
the ones with small mistakes, or	5
He proudly places each of his cor	mpleted statues on a
6	
Choose the Correct Word completes each sentence. Choos that you didn't use above. Add a	e words from the Word List
7 On Sundays, no cars are allow	wed in the park; only
may	enter.
3 You need a special key to unl	ock a pair of
9 You might want asore toe.	to look at your
In earlier times, bicycle rider	s kicked their feet along
the road because the bikes di	d not have

Apply What You've Learned

Demonstrate Word Knowledge Answer the questions or follow the directions.

1	What would you use to wash dishes using the manual method?
2	Name some things you might put on a pedestal.
	Name three things that are manufactured.
7	When might a person need a podiatrist ?
5	Describe which of your facial features you like best.
each	mplete the Sentences Write an answer that completes a sentence. A person might wear a manacle if
	A person might show affection by
	Two places you might find a pedal are



Speak It! Suppose you manufacture robots that look like humans. Tell your class about your factory. Use as many words as you can from the Word List on page 60.

Reference Skills

for Word Wisdom

Bubonic Plague:

The Black Death

In the 1340s, a plague began in China. It quickly spread across Asia. By 1346, more than twenty-three million people had died. In 1347, the plague reached Italy. It followed trade routes throughout Europe. In some cities, six of every ten people died.

This **epidemic** included three kinds of plague. All were very **contagious**. In one kind, the victims had swollen glands. They were **feverish** and had headaches and aching joints. Another kind affected the lungs. The most **toxic** kind caused spots on the patient's skin to turn black. These black spots gave the epidemic its name, the Black Death.

Bacteria caused all three kinds of plague. Rats carried two kinds of the disease. When fleas bit the rats, the fleas became carriers. When the fleas bit people, the people quickly became sick. Droplets of water spread the third kind of plague when an infected person coughed. The victims often died on the first day they showed symptoms. These three diseases

killed thirty to one hundred percent of their victims. No one was **immune** to them. Even strong people with no **frailty** died within a few days.

People did not know what caused this set of diseases. They burned incense to cover up the smell of people dying. They rang church bells to drive the plague away. They blamed the epidemic on earthquakes and movements of the stars. They did not realize that rats and fleas carried the disease or that bacteria existed. They did not wash their hands before they prepared food or ate. Their kitchens and homes were not **sanitary**.

Back then, doctors could not even **diagnose** the plague. Today, they can write a **prescription** that will cure two kinds of the disease. The most toxic kind still has no treatment. Fortunately, it is very rare.

Medicine has come a long way since the 1340s. Now we understand how bacteria can make us sick. Still, we have much to learn about cancers and other illnesses. Six hundred years from now, people will probably be amazed at what we don't know now!

Practice the Context Clues Strategy Here is one of the boldfaced words from the essay on page 62. Use the context clues strategy you learned in Part 1 on page 51 to figure out the meaning of this word.

	prescription
	the sentence that uses the word <i>prescription</i> and ne of the sentences around it.
WO:	old for context clues to the word's meaning. What rds can you find that tell What the Word Is Used Fo
	ink about the context clues. What other helpful ormation do you know?
· <u>· · · · · · · · · · · · · · · · · · </u>	
) Po	edict a meaning for the word <i>prescription</i> .
) Gr	leck your Word Wisdom Dictionary to be sure of the eaning of the word <i>prescription</i> . Write the definition h
	,

1 Unlock the Meanings

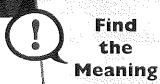
The Encyclopedia An encyclopedia is a good source of information when you want to learn more about a topic. The articles in an encyclopedia are arranged in alphabetical order. To find an article, identify a key word for your topic, such as "disease." Look in the volume that includes the topic. You might also find cross-references that list additional topics you can explore. An example for the topic "disease" is shown here.

Disease.

See *also* Contagious disease; Communicable disease; Infectious disease

Choose the Key Words Decide which word or words in each topic are useful key words to help you find an encyclopedia article. Write your answer on the line.

Topic	Key Word
1 kinds of bacteria	
2 how an epidemic spreads	
3 a history of the microscope	
d careers in nursing	
5 the causes of pneumonia	N
6 how doctors diagnose disease	8 8
7 chemicals that are toxins	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
3 side effects of a fever	
2 how pharmacists keep track of prescriptions	
the body's immune system	ν 5 Φ α



1. Use context clues.

2.Look for a familiar root, prefix, or suffix.

3. If the context or a word part doesn't help, check the dictionary.

Define the Words Follow the steps above to write the meaning of each boldfaced word. Write 1, 2, or 3 to show which steps you used.
Wash your hands to kill bacteria that could make you sick.
A doctor may give you a prescription for medicine.
If you have a contagious disease, stay away from healthy people.
The boy felt feverish , so he stayed home from school.
5 Wearing clean socks every day is a sanitary habit.
6 Even medicine can be toxic if you take too much.
There's no sign of frailty in Grandmother; she swims a mile a day!
The flu epidemic spread quickly around the world.
The doctor did some tests to diagnose my illness.

10 Once you have chicken pox, you usually become immune.

MOKD TT21
epidemic
contagious
feverish
toxic
bacteria
immune
frailty
sanitary
diagnose
prescription

Process the Meanings

WORD LIST	2 69	ogies Complete each analogy with a
epidemic	word from the Word Li	St.
contagious	1 Happy is to sad as fr	ozen is to
feverish		
toxic	2 Medicine is to healt	atul as poison is to
bacteria		
immune		
frailty	Medical doctor is to	physician as germs is to
sanitary		<u> </u>
diagnose		
prescription	Parent is to permissi	on slip as doctor is to
	Match the Word an definition next to the w	a. capable of spreading disease
		from one person to another
	6 frailty	b. determine the cause
	Z sanitary	c. free of germs
	8 epidemic	d. protected from illness

2 contagious

10 immune

e. weakness

f. disease that spreads widely and quickly

Apply What You've Learned

Rel	late the Meanings Answer each question.
	How might you avoid getting a contagious disease?
2	How might a doctor diagnose a problem you are having?
E	How might people find out about an epidemic?
	What is one way you could become immune to a disease?
5	When might you need a prescription?
Co	mplete the Sentences Complete each sentence below.
3	You might find harmful bacteria in
7	If you are feverish, you should
	Avoid toxic plants because
9	One sign of frailty is
STO)	You could make a place sanitary by



Write It! Write a short health handbook for children. Write five or more tips in complete sentences. Use several words from the Word List on page 66.



Review

for Word Wisdom

word List tells about something that is mostly helpful, mostly harmful, or neither helpful nor harmful. Write the

word under the best heading.

Helpful

Harmful

Neither

WORD LIST surgeon infection remedy manicure pedicure germ examine vaccine physician herb podiatrist manual pedestrian pedal pedestal affection

manufacture

manacle

defect

facial

epidemic

contagious

feverish

toxic

bacteria

immune

frailty

sanitary

diagnose

prescription

Demonstrate Word Knowledge Follow the directions by using vocabulary words. Do not repeat a word.

1	Name three people who could write a prescription.
2	Name three things that could cause disease.
ε	Name two things that could prevent or cure a disease.
4	Name two reasons why diseases are spread.
3	Name two things people might have done to their nails.
	Now the Directions Answer each question. When might people use herbs?
7	What is something that is toxic?
<u>:</u>	Why should you not worry if you are immune to a disease?
9	Where would you see a pedestrian?
1(0)	What are some items in your school that are manufactured?

Review

Taking Vocabulary Tests

TEST-TAKING STRATEGY

Try to stay calm and relaxed as you take a test. If you get stuck on a hard question, look for an easier one.

Answer the easiest questions first. You will feel more sure of yourself. It will also keep you from spending too much time on one question.

Sample:

facial scar

- (A) on the surface
- no the face
- © deep
- (D) painful

Practice Test Fill in the circle of the answer that gives the correct meaning of the underlined word.

- sign of frailty
 - (A) weakness
 - B friendship
 - © hunger
 - (D) anger
- 2 examine the kitten
 - (A) pet
 - (B) hold
 - (C) check
 - (D) visit
- 3 with manual controls
 - (A) automatic
 - (B) handmade
 - © easily changed
 - (D) operated by hand
- feverish child
 - (A) having a pleasant dream
 - (B) having a high temperature
 - © having a temper tantrum
 - naving a wonderful friend
- **5** diagnose an illness
 - (A) get
 - ® cure
 - (C) avoid
 - (1) identify

- 6 put on a pedestal
 - (A) play
 - **®** jacket
 - © stand
 - (D) record
- 🜠 a hidden <u>defect</u>
 - (A) treasure
 - (B) problem
 - © result
 - ① room
- 8 true affection
 - (A) caring
 - (B) sickness
 - © creation
 - ① story
- ? missing pedal
 - (A) flower part
 - (B) foot control
 - © diving platform
 - ① gym sock
- broken <u>manacle</u>
 - (A) handcuff
 - (B) chair
 - (C) fingernail
 - (D) dream



Add Suffixes The suffixes -ate, -inate, and -ize can change a noun or an adjective to a verb. Add the suffixes to the vocabulary words below. Remove the letters indicated. Then add the suffix. Use the new word in a sentence.

Word	Subtract	Add	New Word	Sentence
germ		-inate		
immune	-e	-ize		
sanitary	-ary	-ize		
vaccine	-e	-ate	# 1	



Speak It! In your opinion, what is the future of medicine? Make a prediction about how doctors will treat sick or injured people in the future. Hold a debate or small-group discussion with your classmates. Use as many of the words on page 68 as you can.