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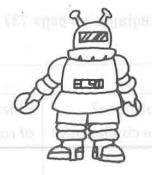
Lesson 25
READER'S NOTEBOOK

Robotics
Independent Reading



Robotics

Think Like an Engineer



Find evidence to show what engineering challenges each robot has overcome and what it has contributed to the field of engineering.

Reread the third paragraph on page 734 and all of page 735.

Robot:	
What challenges did the robot face? How did it overcome them?	What has it contributed to the field of robotics?
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fizitedin ta	How did it overcome them?
Reread page 736.	
Robots:	
What challenges did the robots face? How did they overcome these challenges?	What have they contributed to the field of robotics?
	Dank stood the wiveroom made by miorible you think they tell us about the future of rot

deread the second and third paragraphs on pag	ge 737.	Robotics Independent Reading
Robots:	A	saitada
What challenges did the robots face? How did they overcome these challenges?	of robotics?	ontributed to the field
illenges quet robot has i field of angineering.	n <u>f oj baludintno</u> s	w wone of someway to show w
Read the second and third paragraphs on page	743.	the challenges did the sweets the sweets the
Robot:		
What challenges did the robot face? How did it overcome them?	What has it contril of robotics?	outed to the field

Think about the advances made by each of these robots. What do you think they tell us about the future of robotics?

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Suffixes -able, -ible

Robotics

Vocabulary Strategies: Suffixes -able, -ible

The words in the box end in a suffix that means "can" or "able to."

Choose the word that best completes each sentence.

, , , , , , , , , , , , , , , , , , , ,
disputable audible collapsible edible advisable compatible memorable capable
was not work the warm (3) flawlessly, mad we made the show and was the
nungry, he was unsure whether the fruit was
he level of excitation burketing was (6) intimiditing Several
whether or not the man was guilty.
singer; she was barely
e words.
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Middle Garantson when a career chains for example.
THE PROPERTY OF THE PROPERTY O
hellungs Willer paragraph about a career chance for examples. Descript, a lawyer a rangeaster or so applified. Other researce for
tenches, a lawyer a companier, at no mubiling. Give rescans for

Word Parts

Basic Read the paragraph. Write the Basic Word that best replaces the underlined word or words in the sentences.

The (1) planning of my school's annual talent show began with the planning committee. Committee members gave us

(2) facts about tryout dates and times. The audition I had with my friend Jack went (3) flawlessly, and we made the show!

Weeks of (4) getting ready helped us to feel ready to perform.

(5) The turnout was quite high, with parents and students present. The level of excitement backstage was (6) astonishing. Several students showed intense (7) focus before their performances.

After an hour of entertainment, there was a(n) (8) break. We had some (9) snacks as we talked about the acts. Jack and I agreed that there was great (10) progress compared with last year's show.

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2	7	
3	8	_
4	9	
5	10.	

Challenge Write a paragraph about a career choice—for example, a teacher, a lawyer, a carpenter, or an architect. Give reasons for your choice. Use three of the Challenge Words. Write on a separate sheet of paper.

Robotics

Spelling: Word Parts

Spelling Words

- 1. existence
- 2. refreshment
- 3. convention
- 4. intermission
- 5. uneventful
- 6. perfectly
- 7. completion
- 8. improvement
- 9. information
- 10. attendance
- 11. reversible
- 12. invention
- 13. development
- 14. respectful
- 15. unhappiness
- **16.** preparation
- 17. irrigate
- 18. disagreement
- 19. unbelievable
- 20. concentration

Challenge

acquaintance prosecution precision immeasurable reputation

Spelling Word Sort pulling 7 101

Write each Basic Word beside the correct heading.

Three-syllable words	and a threat by others Today each and a threat by others Today each armounce the directoppment of now
Four-syllable words formeverami	r machina diat replaced henran warkers unhapmers and assigneement. People rise their jobs and they use often right. It as a timer to anjeats heids manor dua
Five-syllable words	this goe by trand, because the cocoss have a trand to not reversable. Companies to be respectfull of workins! Lears, but

Challenge Add the Challenge Words to your Word Sort.

Connect to Reading Look through Robotics. Find words that have a prefix, a base word or word root, and a suffix. Add them to your Word Sort.

Spelling: Word Parts

Robotics

Spelling Words

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Challenge

acquaintance prosecution precision immeasurable reputation

Proofreading for Spelling

Find the misspelled words and circle them. Write them correctly on the lines below.

The innvention of industrial robots was always seen as an impprovement by some and a threat by others. Today, each convenntion that doesn't announce the development of new models is usually an uneventfull one. But throughout history, the complection of every machine that replaced human workers has been met with some unhapiness and disaggreement. People are afraid that they will lose their jobs, and they are often right. Even something as simple as a timer to irigate fields meant that someone no longer did that job by hand. Now that robots have come into existance, this trend is not reversable. Companies that introduce robots try to be respectfull of workers' fears, but the end result is always the same. The machines will be made and used, and workers must adjust.

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5	11
6. <u>oldennament l</u>	12

Robotics

Spelling: Word Parts

Spelling Words

- 1. existence
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Name	Date	

Sentence Types: End Punctuation

Robotics

Grammar: Proper Mechanics

There are three types of **end punctuation** that conclude a sentence: the period, the question mark, and the exclamation point. The most common is the period, which ends a sentence that makes a statement. A question mark is used for a question, and an exclamation point is used to convey strong emotion.

statement

I went to the store today.

question

Did you go to the store today?

exclamation

I was so excited to go to the store today!

Thinking Question
Does this sentence
make a statement,
ask a question,
or express strong
emotion?

Activity	Write	the	correct	punctuation	at	the	end	of	each	sentence
-----------------	-------	-----	---------	-------------	----	-----	-----	----	------	----------

- 1. A robot is mechanical _____
- 3. Who designed the first robot _____ and adhar yew affi no ent ym particles I dodfi a
- 4. Bobby was thrilled to start reading the story _____
- **5.** Did you finish writing the report _____
- **6.** Many robots use electric motors _____
- **7.** Today, robots are commonly used to perform certain jobs for humans _____
- 8. What an amazing invention _____

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Name	Date

Interjections: Punctuation and ball 1891

Robotics

Grammar: Proper Mechanics

An **interjection** is a word or group of words that expresses emotion. An interjection that expresses very strong feeling is followed by an exclamation point. An interjection that expresses mild feeling is followed by a comma and appears at the beginning of a sentence.

exclamation point

Yay! I'm excited for the trip.

comma

Oh, I didn't know we weren't leaving until tomorrow.

Thinking Questions

Is this a strong emotional expression that is separate from the next sentence?
Or does it express milder emotion and begin a sentence?

Activity Add a comma or exclamation point after each underlined interjection.

- 1. Hooray I passed the test.
- 2. Oh no it's too late to study.
- **3.** Wow I got to see a real robot.
- **4.** Yikes It looks like an alien.
- **5.** Fine we can wait to see the exhibit.
- **6.** Ouch I stubbed my toe on the way to the bus.
- 7. Phew We have bandages in the first aid kit.
- **8.** Oh there's time to have lunch before we leave.

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Lesson 25 R'S NOTEBOOK

Capitalization: Proper Nouns and Proper Adjectives

Robotics

Grammar: Proper Mechanics

A proper noun names a specific person, place, or thing, and begins with a capital letter. A proper adjective is often derived from a proper noun and also begins with a capital letter. proper noun a seame as a fase of the meta trolled hand

I went on a trip to China.

proper adjective

I ate Chinese food there.

Thinking Questions

Is this word the name of a person, place, or thing? Is it derived from the name of a person, place, or thing and does it begin with a capital letter?

Activity Underline the proper noun or proper adjective in each sentence.

- 1. The first descriptions of machines were made by Heron of Alexandria.
- 2. George Devol received a patent for the first commercial robot.
- **3.** Japanese mechanical toys were made in the 1800s.
- 4. Even Leonardo da Vinci had made a design for a robot.
- **5.** The term "robot" was coined by a Czech writer.
- **6.** His name was Karel Čapek.
- 7. He used the word in a play called Rossum's Universal Robots.
- **8.** His brother Josef was a painter.

Name	Date
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Using Adjectives and Adverbs

Robotics

Grammar: Spiral Review

Nonrestrictive Element	The robots, all of which are based on insects, are very small.	
Parenthetical Elements	The largest robot—known as Atlas—stood seven feet tall.	
laking Questions this word the manu of	Tiny robots may one day be able to make people better (by removing plaque from arteries, for example).	

- 1–6. Look for the nonrestrictive or parenthetical element in each sentences below. Rewrite the sentence on the line with correct punctuation.
 - **1.** This is my strongest robot SAM.
 - 2. I made him when I was 12 two years ago.
 - 3. He helps me I'm happy to say by lifting heavy things.
 - 4. There are smarter robots don't tell him. There are smarter robots don't tell him.
 - 5. But SAM who was my first will always be special to me.
 - 6. He lives with me in my room in my closet, specifically.
- **7–8.** Use a nonrestrictive or parenthetical element to add information to each sentence. Write the new sentence on the lines.
 - **7.** The robot head looked at me from the table.
 - 8. Its eyes seemed strangely human.

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Connect to Writing

Robotics

Grammar: Connect to Writing

When you proofread your writing, you must make a habit of checking for correct punctuation		
and capitalization. In the company symmetry of the capitalization and capitalization and capitalization.		
incorrect punctuation	incorrect capitalization	
Hooray, that was the best movie I've ever seen.	brian brought back souvenirs from russia.	
correct punctuation	correct capitalization	
Hooray! That was the best movie I've ever seen!	Brian brought back souvenirs from Russia.	

laboration

Read each sentence. Then write the sentence correctly on the lines provided.

- 2. I'm going to build robots in south america.

 3. jane said she had been there before.
- 4. Cool, it sounds amazing. To agree 3. Savience of the same of th
- 5. I'm especially looking forward to visiting peru.
- **6.** From there, we go to silicon valley.

A few people use purifing together reliate that are actually realty small.

Name	Date

Focus Trait: Elaboration Using Persuasive Language

Robotics
Writing: Argument

moderness are Statement was to be be a supply to be	More Persuasive Statement
People are afraid that robots may be too smart	People have imagined the possibility of highly
and a threat to humanity.	intelligent robots taking over the human race.
brian prougn) back souvenirs from mesta.	This fear has been expressed in countless
political supplies libraries	books and films, from science fiction novels to
Board brought back souwards from Russon	action movies.

Fill in the blanks with words that are more persuasive than the examples on the left. Choose words that are confident, positive, and convincing.

Instead of this	you can write this.
1. Modern technology can do things that help some people.	Modern technology can people.
2. Fooling around with robots has probably had many big results.	robots has Fresults.

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Rewrite each sentence to make it more persuasive. Change or add parties and persuasive language, and eliminate words that are vague or sound uncertain.

- **3.** Robots might help doctors take care of people.
- **4.** People will usually like a robot more if it looks like it has expressions.
- 5. A few people are putting together robots that are actually really small.