Lesson

27

Close Reading

1st Read - Scratch the Surface

get the gist of the text

2nd Read – Discover New Words

- highlight/underline any unfamiliar words
- use context clues to determine the meaning of the word
- write the definition on the text

3rd read – Dig a Little Deeper

- determine the main idea of each paragraph or section of the text
- write the main idea on a post-it

4th read – Analyze the Text

• teacher determines (identify theme, cause and effect, author's purpose, etc.)

1 2 J

Maglev Trains

ave you ever heard of a maglev train? A maglev train is not your ordinary train. First of all, it doesn't even touch the tracks. It actually hovers above them. Second, a maglev train is fast—very fast. Unlike ordinary trains, which travel about 150 miles per hour, maglev trains can whiz by you at nearly 350 miles per hour! Just what is a maglev train, and how does it work?

Maglev is short for magnetic levitation. Magnetic refers to magnets. Levitate means "to float in the air." A maglev train uses magnetic forces to float and move above the tracks.

Like all magnets, the magnets used in maglev trains have ends, or poles. One pole of a magnet is called the north pole; the other pole is called the south pole. Opposite poles of magnets attract each other. Like poles repel, or push each other away.

In one kind of maglev train, magnets in the train and magnets in the track repel each other. They don't allow the train and the tracks to touch, so the train is held above the tracks. Magnetic forces also pull the train forward.

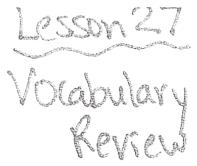
What advantages does a maglev train have over a train that runs on steel tracks? Because a maglev train does not rub against the tracks, it can travel at much higher speeds than an ordinary train. Also, because it does not make contact with the tracks, a maglev train is much quieter than a regular train. Plus, a maglev train doesn't have an engine that burns fuel, so it doesn't pollute the air.

How would you like to ride on a maglev train?

research

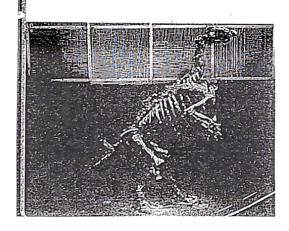
Sometimes artists need to do research to find out what things look like.





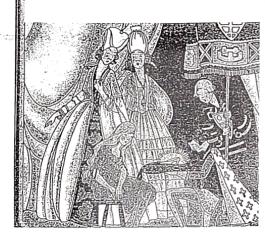
prove

Scientists are trying to prove, or show, that dinosaurs and birds are related.



familiar

This illustration is from a familiar, or well-known, story. It is from Cinderella.



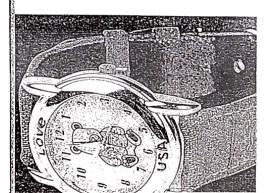
power

This player uses all his power, or strength, to hit the ball out of the park.



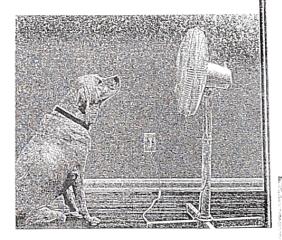
gadget

A small gadget with many parts, such as a watch, can be hard to repair.



electric

The invention of the electric fan helps us to stay cool in hot weather.



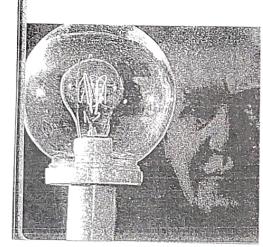
improve

Coaching helps tennis players improve, or get better.



The light bulb was an invention that helped people do things at night.

invention



tools

Artists use tools such as brushes, pencils, and markers to make art.



experiment

First, an inventor must perform an experiment to test an idea.



Name		1	Date	

Lesson 27 READER'S NOTEBOOK

The Power of Magnets

Phonics: Double Consonants

Double Consonants

Choose a syllable from the left box and a syllable from the right box to make a word that completes each sentence. Write the word on the line and read the completed sentence.

Hint: Each word you make will have a double consonant.

First Syllables					Sec	ond Syll	ables		
at	but	dol	fun	hap	den	der	lar	low	nel .
lad	sud	tun	yel	zip	ny	pen	per	ter	tract

- 1. A magnet will _____ a needle.
- 2. What do you think will _____ next in that story?
- **3.** Bonnie needs a _____ marker to color the sun.
- 4. I spread ______ on warm toast.
- **5.** All of a ______, it started to rain.
- **6.** I can't close my jacket because the ______ is broken.
- 7. Climb up the _____ carefully.
- **8.** That joke was so _____ that I hurt myself laughing.
- **9.** Jake has one _____ to buy a treat.
- **10.** A mole will dig a _____ under the ground.



Projectable 27.2

The Power of Magnets Vocabulary Strategies Homographs and Homophones

Homographs and Homophones

Choose the correct meaning for the homophone or homograph in each sentence.

- 1. A magnet has a pair of poles.
 - a. a fruit

b. a set of two

- 2. Did I just hear the doorbell?
 - a. listen to sound

b. in this place

- 3. A refrigerator door has steel in it.
 - a. a heavy strong metal

b. take what isn't yours

- 4. Some tools and toys use magnets.
 - a. total

b. a number of

- 5. Take a peek at my invention!
 - a. top of a mountain

b. a look

- 6. Use a magnet to stick the paper to the refrigerator.
 - a. attach

b. a small piece of wood

- 7. Like poles of a magnet attract each other.
 - a. to be fond of

b. similar or the same

- 8. A watch needs a battery to run.
 - a. a thing that tells time

b. to look at

- 9. A magnet will attract an object with iron in it.
 - a. a thing

b. to protest

- 10. You live with electromagnets all around you.
 - a. not dead

b. to be or exist

Vocabulary Strategies

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Grade 3, Unit 6

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The Power of Magnets Fill in the Blank

		· · · · · · · · · · · · · · · · · · ·		····
research	tools	familiar	gadget	invention
experiment	electric	power	prove	improve

 I studied multiplicatio grade. 	n all weekend to my
2. Thela	mp was plugged into the wall outlet.
3 I chose toproject	the continent of Africa for my
4. We conducted an equipment	using the laboratory
5. Carpenters use many complete a job.	differentto
6. The woman looked remember her name	, but I could not
7. The bull had so much gate down.	that he knocked a
8. We used a bookshelf	to help us put together the
9. We needed evidence innocent.	to that she was
10. The man made an anything we had ever	seen. that was unlike

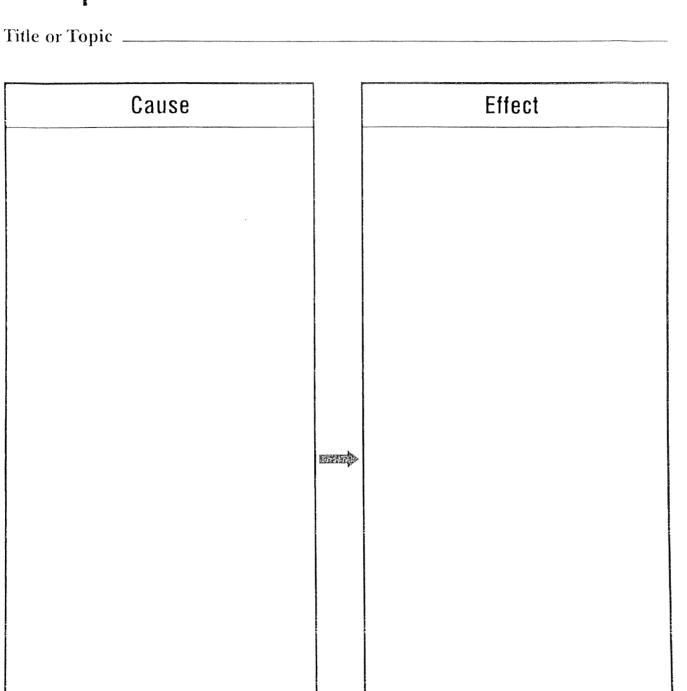
The Power of Magnets Vocabulary Strategy: Homographs and Homophones

Circle the word that best completes each sentence

1	Which word best completes the sentence? My mother wanted to some milk at the grocery a. bye b. by c. buy
2	Which word best completes the sentence? The teacher asked a question, and I gave her the answer.
	a right b write c rite
3	Which word best completes the sentence? The waves were rolling on the a see b. sea c. cee
4	Which word best completes the sentence? I needed to brush my before I left the house. a hair b. hare c. hear

T-Map: _____

Cause



T-Map: _____

Title or Topic _____

Cause

Effect



*	
Name	

Date _____

Lesson 27 READER'S NOTEBOOK

The Power of Magnets
Independent Reading



The Power of Magnets

Your Magnet Invention



Now is your chance to design a magnet to make your life easier! First, answer the questions below to make sure you understand how magnets work. Then, create your own design.

	-21. What causes some objects to be attracted to a magnet?
icau payes zu	-21. What causes some objects to be attracted to a magnet:
Pige -	
1. "	
Dood nage 22	What hannone if you enrinkle iron filings around a magnet?
neau paye 22.	What happens if you sprinkle iron filings around a magnet?
Read nage 23	What is important about electromagnets?
Read page 23.	What is important about electromagnets?
Read page 23.	What is important about electromagnets?
Read page 23.	What is important about electromagnets?
	What is important about electromagnets? -25. How can you create a magnetic field in your own home?

N	ame					<u> </u>	Date		RE
in re o it	nprove y r outside egular m f your m	our life. Will ynagnet onagnet a Be sure	. Will y ou us or an e and wr	nt you ca you use to e it at so lectroma ite an ex you inclu	the ma chool? agnet? kplanat	gnet in Will you Draw a tion of	n your ho ou use a a picture how)	The li
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The Power of Magnets
Independent Reading

Name	Date.
Name	Dale.

Lesson 27
LEVELED PRACTICE SR27.1

The Power of Magnets

Phonics:
Double Consonants

Double Consonants

Read each word. Rewrite the word with a slash between the two syllables. Then say the word again. The first one has been done for you.

- **1.** pillow _____pil/low
- **2.** college _____
- **3.** attack _____
- **4.** effort _____
- **5.** pretty _____
- **6.** tunnel _____
- **7.** address _____
- **8.** hidden _____
- **9.** shallow _____
- **10.** support _____

VOCABULARY ITST FOR INC POWER OF MAGNETS

Name	Date
Write the voc	cabulary word that matches the definition
1.	Well known, as from repeated experience
2	To show to be true by backing up with facts
3	An original device, system, or process
4	Careful study of a subject or problem
5	The force, strength, or ability to do something
6	To get better
7	A test to find out or prove something
8	Of, relating to, or produced by electricity
9	A device that is specially made or shaped to help a person do work
10	A small mechanical device
experime	ent prove power gadget electric
research	improve familiar tools invention

The Power of Magnets Picture Sentence Meaning research tools familiar gadget invention