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BioEd

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Word Meaning/Context Clues

- 1. **Tub of Words.** Find the word in the tub that fits best in each blank space below. Write the correct words in the blanks. Use each word only once.
 - a. That _____ is the craziest looking machine I ever saw!
 - b. What happens to a house heated by _____ power if the sun doesn't shine for a week?
 - c. This tunnel into the mine is blocked, so you'll have to use the other_____.



d. This _____

shows the whole skeleton of a fish that died and was buried under the sea a million years ago.

- e. If you eat nothing but candy and other things without many _____, you won't stay healthy.
- f. Gasoline is the _____ most often used to make cars go.
- g. Burning fuels that release carbon dioxide changes the ______ of the Earth.
- h. It's warm most of the time in Florida, but Michigan has a cold _____.







2. Now choose any four of the words you have just used, and write a definition for each one. Here are the words.

	atmosphere	shaft	
	solar	fossil	
	climate nutrients	contraption	
		fuel	
a			
_			
b			
c			
d			





3. Many Meanings. A word can have more than one meaning. Look at the different meanings for mine and racket. Then pick the meaning of those words that fits best in each sentence. Write its number next to the sentence.

mine

- 1. an underground hole or tunnel from which minerals (like coal, iron or silver) can be taken
- 2. an explosive device that can be placed in the ground or water
- 3. something that belongs to me
- _____ The soldiers were careful not to step on a land <u>mine</u>.
- _____ This book is <u>mine</u>.
- _____ They had little wagons to carry coal out of the <u>mine</u>.



racket

- 1. a device that has a frame with tightly laced strings and a handle, used to hit the ball in a game of tennis
- 2. a loud, unpleasant, clattering sort of noise
- 3. a dishonest scheme for getting money

___ What is all that <u>racket</u> up on the roof?

_____ The man looked honest, but his business was really a <u>racket</u> to cheat people out of their money.

Don't forget to bring your tennis <u>racket</u> to the park.



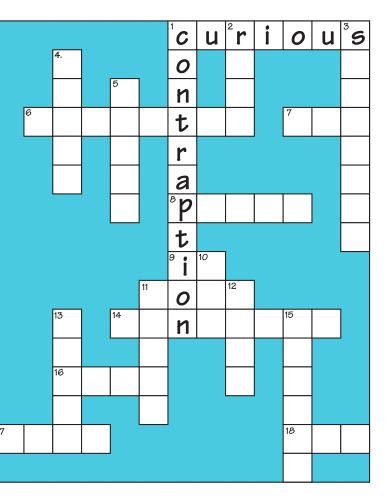
4. Mr. Slaptail's Curious Crossword Puzzle. All of the words in this crossword puzzle are in the story, *Mr. Slaptail's Curious Contraption*.

Across

- 1. Interesting because it is so unusual; wondering
- 6. The kinds of weather places usually have
- 7. A greasy liquid that often is used for fuel
- 8. Force; energy that can be used for doing work
- 9. Not out, but _____
- 11. Black powder made when something burns
- 14. A toy with a part that spins in the wind; Rosie made one
- 16. A black, solid substance formed in the Earth long ago
- 17. To change or destroy with fire or heat
- 18. A substance that is not solid or liquid

<u>Down</u>

- 1. A strange-looking gadget
- 2. Animals similar to mice; a word Riff uses when he's mad
- 3. Light from the sun
- 4. Coming from or related to the sun
- 5. A cloud rising from something that's burning
- 10. At the present time
- 11. Not very sensible; ridiculous; foolish
- 12. Not us, but ____
- 13. Mr. Otterbee's first name
- Power that can be used to do physical work or provide heat













- 1. Read the chapter, "Off to the Coal Mine," on pages 12–15. Which one of the three things below happened FIRST in that chapter? Write 1 next to it. Then write 2 by the event that happened next, and 3 by the one that happened last.
 - _____ They called Beulah Diggerpaw's name, but there was no answer.

Everyone got into Oscar Otterbee's old truck.

- _____ They learned that there had been an explosion and part of the mine had caved in.
- 2. After you have read the whole story, find the event below that happened LAST. Write 4 next to it. Then write the numbers 1, 2 and 3 to show the order in which the other events happened.
 - _____ Rosie made a pinwheel that worked like a real windmill.
 - _____ Ms. Diggerpaw decided never to go into the mine again.
 - _____ Mr. Slaptail built a contraption to heat water on his roof.
 - _____ A dark cloud of smoke rose in the air.

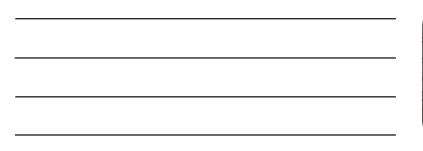




Write your answer to each question.

1. Why did the neighbors stop in front of Mr. Slaptail's house?

2. What could Mr. Slaptail do because he had "greenhouse" windows?



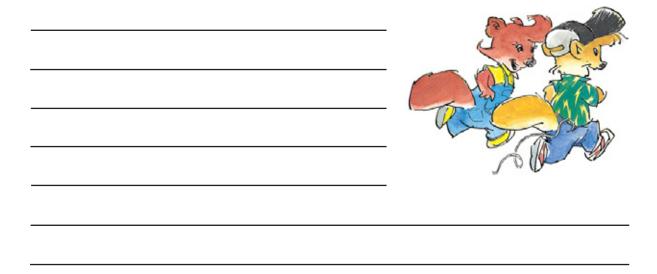


3. Why did Beulah Diggerpaw decide to shut down her coal mine? (Give at least two reasons.)

4. What happened in Bright Water Corners because the coal mine was going to close?

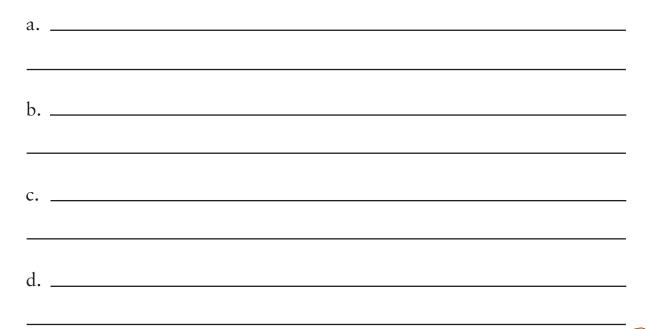


1. At the beginning of the story, Riff and Rosie went to Mr. Slaptail's house. In your own words, write down what they saw there. Tell who, where and what. Include as many details as you can.



2. What time of year was it when this story took place? Circle your answer and list the reasons you think so.

I think this story took place in (circle one) spring summer fall winter because





Details and Supporting Ideas (cont.)

3. Think about the characters in the story *Mr. Slaptail's Curious Contraption*. Choose your favorite. Tell why you like that character the best, giving as many reasons as you can.

My favorite character in the story is_____.

That is because







- 1. Choosing the Main Idea. Look at the yellow box on page 12 in the story book. Which sentence below best tells the main idea of this Science Box? Fill in the circle by your answer.
 - O Did you know that burning is a chemical reaction?
 - O When something like fossil fuels or wood burns, it uses oxygen.
 - O A fuel is something we can burn to produce energy.
 - O When a fuel doesn't burn completely, it can make black smoke or soot.
- 2. Look at the yellow box on page 27. Which sentence below best tells the main idea? Fill in the circle by your answer.
 - O We don't always need to use fossil fuels.
 - O We can save fuels by riding a bicycle, walking, taking a bus or sharing rides.
 - O We can use the power of water to make electricity.
 - O Did you know that plastics come from fossil fuels?
- 3. Write one sentence that tells the main idea of the story, *Mr. Slaptail's Curious Contraption*.







1. Pretend that you are Rosie. Write a letter to a friend telling about Mr. Slaptail's contraption. What did it look like? How did it work? Why did he build it?



2. The citizens of Bright Water Corners thought of many ways to supply the town with energy, without burning coal. Name as many ways as you can.



Fact and Opinion



Following Written Directions

Facts are true. Opinions are what someone thinks, but they might not be true. Based on the story, tell whether you think each of these sentences states a fact or an opinion. Write F or O in each space. (Look back in the story if you need to.)

- _____ Mr. Slaptail has lost his mind for sure. (page 3)
- _____ Mr. Slaptail was building a submarine on top of his house. (page 4)
- With his solar water heater, Mr. Slaptail won't have to have a fire to get hot water anymore. (page 8)
- _____ Mr. Slaptail can grow lemons in his house during the cold winter. (page 9)
- _____ Ms. Diggerpaw can't shut down the mine because everyone has to have coal for heat and for cooking. (page 22)
- Everybody could use power from the sun. (page 23)
- _____ The solar water heater is a crazy idea that won't really work. (pages 23 and 24)
- _____ Mr. Blackduck's Grandpa used the wind for energy. (page 27)
- _____ Bright Water Corners is going to be super-energy city. (page 27)

Following Written Directions

Follow the directions on pages 32 and 33 to make a pinwheel. Work with a partner to make a pinwheel together the first time, and then make and decorate your own pinwheel.







- 1. Fill in the circle by the word that best answers each question.
 - a. At the beginning of the story, the neighbors thought Mr. Slaptail was ______ for building a contraption on his roof.
 - O smart
 - O friendly
 - O crazy
 - O angry
 - b. How do you think Riff and Rosie felt when they heard a loud BOOM and saw smoke in the distance?
 - O excited
 - O worried
 - O happy
 - ${\rm O}$ angry
 - c. How did Mr. Slaptail feel when he said, "There's an old entrance on the other side of the mine Maybe we could get in that way."?
 - O frightened
 - O angry
 - ${\rm O}\xspace$ sad
 - O hopeful

d. How did Ms. Diggerpaw feel about having to close down her coal mine?

- O frightened
- O excited
- ${\rm O}\xspace$ sad
- ${\rm O}$ happy





Inferences, Generalizations and Conclusions (cont.)

- 2. After you have read *Mister Slaptail's Curious Contraption*, decide whether you think each of these sentences is True or False. Mark T or F on the line by each sentence. If you decide a sentence is false (it does not state a logical conclusion from the story), rewrite it below to make it a true statement.
 - _____ Mr. Slaptail is a clever inventor.
 - _____ Without the sun, there would be no life on Earth.
 - When coal is used up, it is easy to make more.
 - Carbon dioxide is needed to hold heat near the surface of our planet.
 - —— Nothing we do changes the atmosphere around the Earth.



- _____ Beulah Diggerpaw is too old to work anymore.
- 3. Rewrite False sentences to make them true.





- 1. What do you think will happen after this story ends? Choose which ending of each pair you think is most likely. Mark it with an X.
 - _____ The people of Bright Water Corners will find it is too hard to do without coal. They will go to Carbon Mountain to get coal.

OR

- The people will keep using new energy sources like windmills and the sun, and they will notice that their air is cleaner.
- ——— Riff will decide that he doesn't like visiting Bright Water Corners in the summer, and he will not come back next year.

OR

- ——— Riff and Rosie will continue working and learning with Mr. Slaptail in the summers.
- Mr. Slaptail will discover many more things that can run on solar power, and he will make other energy-saving inventions.

OR

- Mr. Slaptail will decide that all of these inventions are boring, and he will go back to his old ways.
- 2. What else do you think might happen in Bright Water Corners after they have changed the ways they get energy? Write a paragraph, telling what you predict.

