

SCIENCE PUZZLERS, TWISTERS & TEASERS

The Atmosphere

Some Like It Hot

1. Andrea likes school, but she loves the summer even more. Over the summer, she observed many processes that reminded her of energy concepts she learned about in school. Fill in the energy concepts she has observed in the space provided. Choose from *radiation, conduction, convection, greenhouse effect, and global warming*.

a. Doesn't it seem like lately every summer is the hottest on record?

b. Ouch! The sand is burning my feet! Why didn't I bring my sandals?

c. Ugh! Roll down the window! Next time we should park in the shade. I'm melting back here.

d. This is my favorite part of making soup. See how the spices come up in the middle of the pot then go shooting out to the side and back down? Over and over. That's so cool.

e. I *love* to be outside. The sun makes me feel warm all over.

Blow Wind Blow

2. Identify the different types of winds from the clues given below.

a. When these winds failed, early traders would give just about anything to get them back.

b. They will take you back home if you're European.

c. They ruffle the penguin's feathers and the polar bear's fur.

d. Airline pilots use these high winds to go with the flow whenever they can.

The Atmosphere, continued

Double Puzzle

3. Answer the clues below by filling in the open boxes provided. Then arrange the letters from the highlighted boxes to answer the final riddle.

a. The sun supplies this.

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b. It's the Earth's sunblock.

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c. How low (or high) can you go?

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d. A must for kites.

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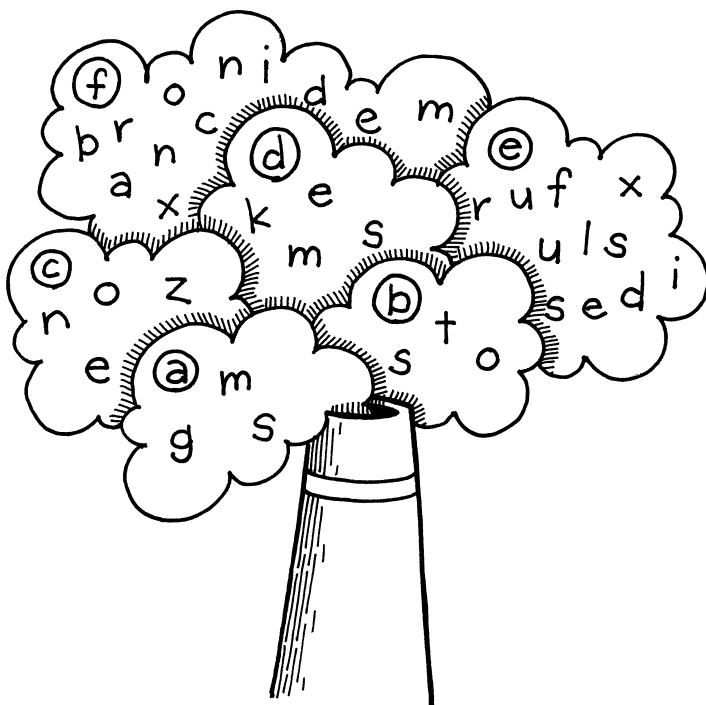
e. It spews from cars and trucks.

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We wouldn't be here without it: _ _ _ _ _

We Need a Pollution Solution

4. Rearrange the letters found in the belching smokestack below to form words related to air pollution. Note that one letter—the same letter—is missing from each of the words.



- a. _____ d. _____
 b. _____ e. _____
 c. _____ f. _____