

Air Detectives

Use evidence to find air and moving air.

SC.2.E.7.4 "Investigate that air is all around us and that moving air is wind."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline two details that show air is present. Circle two details that show air is moving, which is wind.

Maya Finds Air

- ① Maya held an empty-looking clear cup upside down and pushed it straight into a tub of water. Water did not fill the cup. When she tipped the cup, bubbles rose and water moved in. The bubbles showed that air had been inside.
- ② Air is all around us, even though we usually cannot see it. It fills spaces, such as the cup before water enters. Air is also outside the cup. A room, a playground, and the space around your hand all have air.
- ③ Later, Maya stood near a window. The curtains lifted and a paper pinwheel turned. Air was moving through the open window. Moving air is called wind. Wind can move leaves, flags, or a kite because the air pushes on them.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What happened when Maya tipped the cup, and what did the bubbles show?

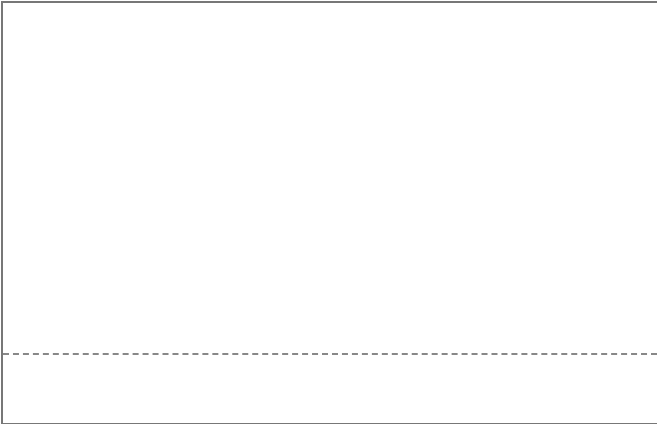
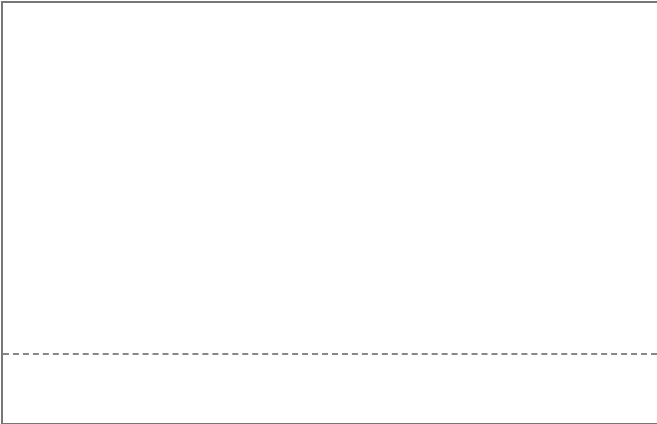
2 Name two places in the passage where air is found.

3 What is wind? Name one thing Maya saw that showed wind was moving.

3 YOUR TURN

Your own words

Draw two panels of a place you know. In Panel 1, show air around an object and label it. In Panel 2, show wind moving one thing and label it. Also investigate real air with your teacher. Teacher supplies a clear plastic cup and a water basin deep enough to submerge the cup. Predict what will happen. Watch the teacher lower the cup straight down upside down, then tilt it. On extra paper draw what you actually see before and after tilting; label any air pocket, bubbles and entering water. Explain how that evidence shows air was in the cup. Next hold a paper strip from its top edge without waving it. Watch it at rest, then while your teacher moves a cardboard fan toward it without touching the strip. Draw the observed change and explain how moving air pushed it. Keep the two place-you-know panels separate; wipe spills and do not drink the water.

	
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PART 1 • READ AND MARK

Underline two details that show air is present. Circle two details that show air is moving, which is wind. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What happened when Maya tipped the cup, and what did the bubbles show?	Bubbles rose and water moved into the cup. The bubbles showed that air had been inside the cup.
2	Name two places in the passage where air is found.	Answers may include inside the cup, outside the cup, in a room, on a playground, or around a hand.
3	What is wind? Name one thing Maya saw that showed wind was moving.	Wind is moving air. Maya saw the curtains lift or the paper pinwheel turn.

PART 3 • YOUR TURN (SAMPLE ANSWER)

Panel 1: A backpack sits on a playground bench. Label: Air is around the backpack.

Panel 2: Wind blows across the playground and moves a flag. Label: Moving air is wind.

Accept any passage-based locations for Question 2. For the open task, look for air identified around an object and wind shown as moving air that moves an object. Teacher runs the cup in a stable basin at child viewing height, keeps heads/faces out of water, and supports drawings/oral recording. A trapped air pocket and air bubbles leaving as water enters support the cup-air explanation; do not insist no water enters the inverted cup at all, since air may compress. Fan movement pushes surrounding air, which can move the paper strip without direct fan contact. Require actual before/after evidence for both demonstrations, accepting weak/no strip motion and retrying gently with adequate air movement rather than inventing an observation. Existing conceptual backpack/flag model remains separate.