

Double Trouble



Question:

Will you be able to drink more or less with two straws placed like this?

Materials:

- drinking glass
- water
- two drinking straws

What do you think will happen?

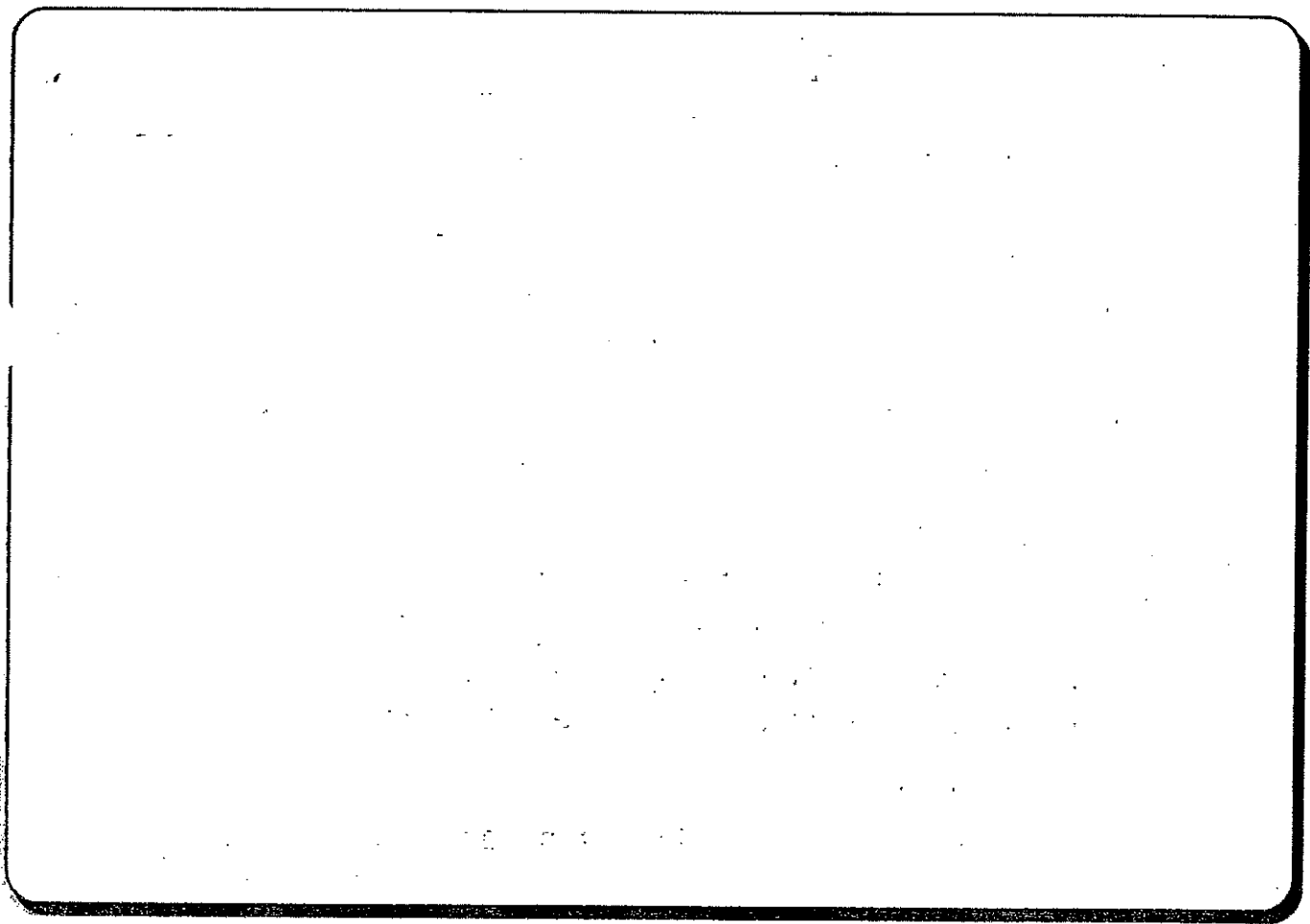
- 1. I will drink the water more quickly.
- 2. I will suck water in one and spit it out the other.
- 3. I will make bubbles as I drink.
- 4. I will drink only a little bit of the water.

Follow these steps:

1. Put both straws in your mouth.
2. Put the end of one straw in the glass of water.
3. Keep the other straw outside the glass.
4. Try drinking.

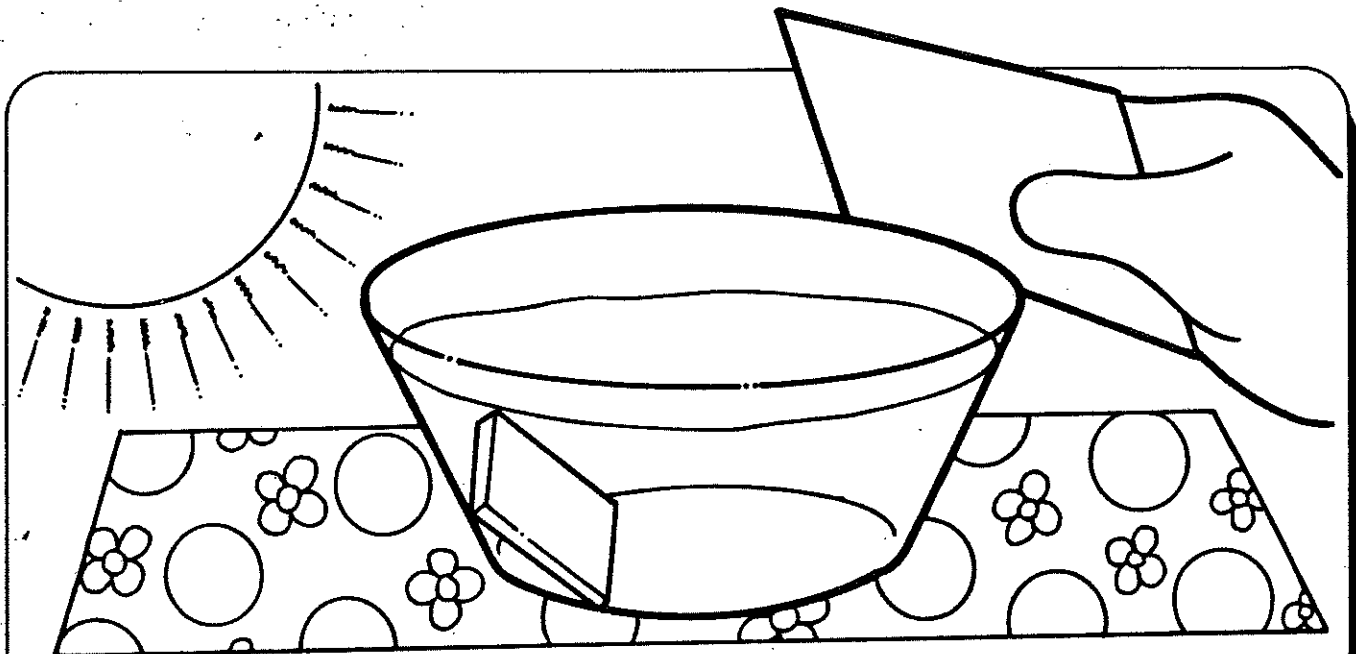
Write what happened in the experiment.
Then draw a picture showing what happened.

? What ?
Happened
?



Explanation:
When you suck on a straw you lower the pressure in your mouth. Air pressure pushing down on the liquid in the glass pushes the water up the straw into your mouth. In this experiment the straw outside the glass of water will continue to bring air inside your mouth. This keeps the pressure the same both inside and outside your mouth. You will find it hard to drink any of the water.

What Color Is Sunlight?



Question:

Can sunlight be separated to show colors?

Materials:

- bowl
- white card
- water
- a sunny day
- mirror

What do you think will happen?

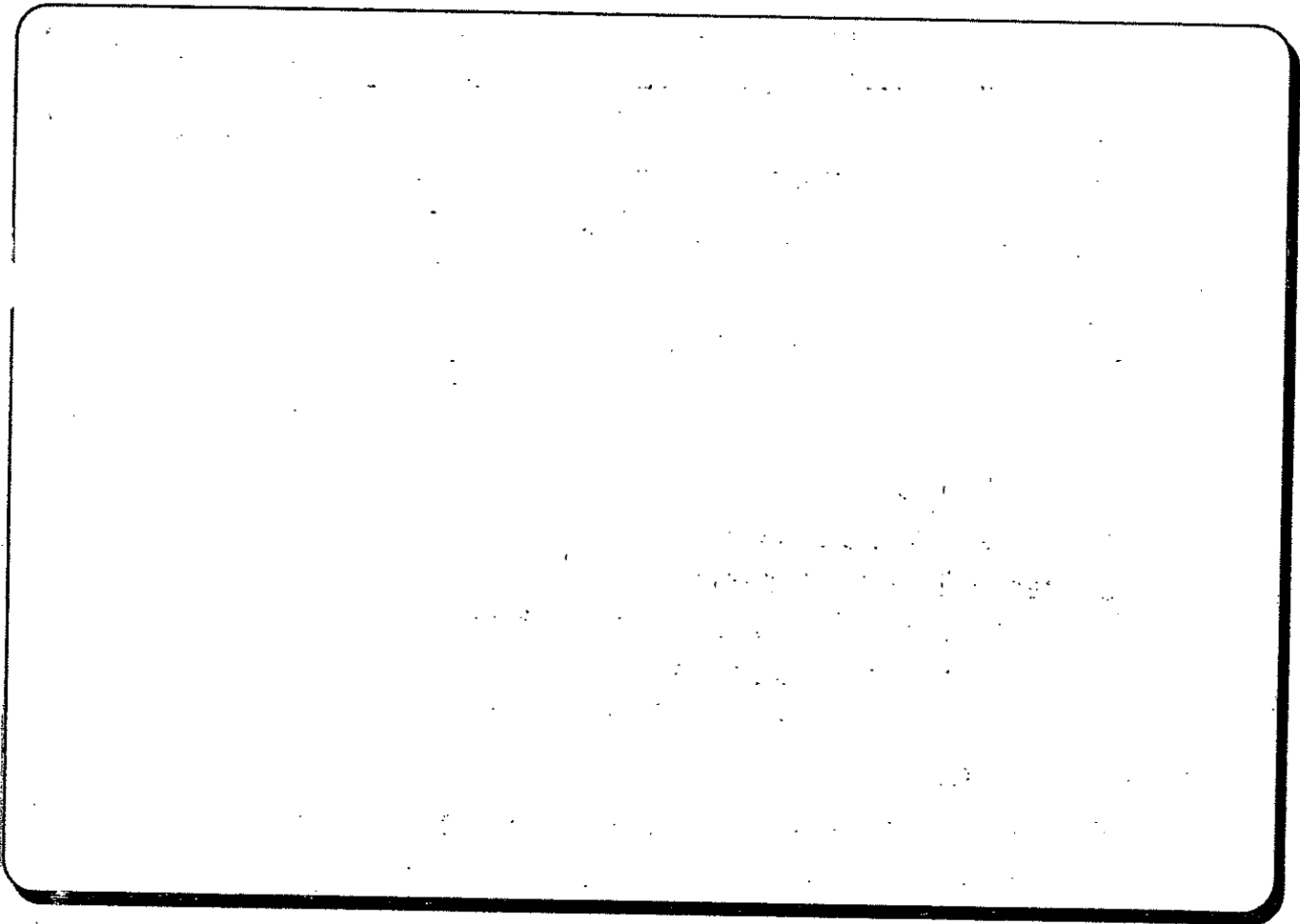
- 1. Sunlight can't be separated into colors.
- 2. When sunlight is separated you see black and white.
- 3. When sunlight is separated you see many colors.
- 4. When sunlight is separated you see colored dots.

Follow these steps:

1. Fill a bowl with water. Put a flat mirror in the bottom of the bowl.
2. Set the bowl where sunlight falls onto the mirror.
3. Hold the white card in front of the mirror. Move it around until you find a rainbow of colors. You may have to change the position of the mirror to get this just right.

Write what happened in the experiment.
Then draw a picture showing what happened.

? What ?
Happened
?



Explanation:
White light contains all of the colors. The water between the mirror and the surface of the water acts as a prism and splits the light apart so you can see the different colors.