

## Let's Turn the Windmill Using Snow



Try to spin a windmill with cold air made by snow and salt.



# Cold air will makes a descending air current



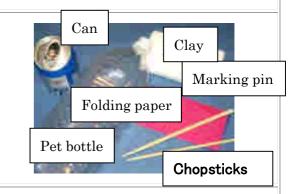
#### Materials



- •PET bottle (2L)
- •Snow(60g)
- -Salt(20g)

1

- Aluminum can (350ml)
- •Folding paper •Clay •Marking pin
- Disposable wooden chopsticks Cutter
- \*Eyeleteer \*Can opener



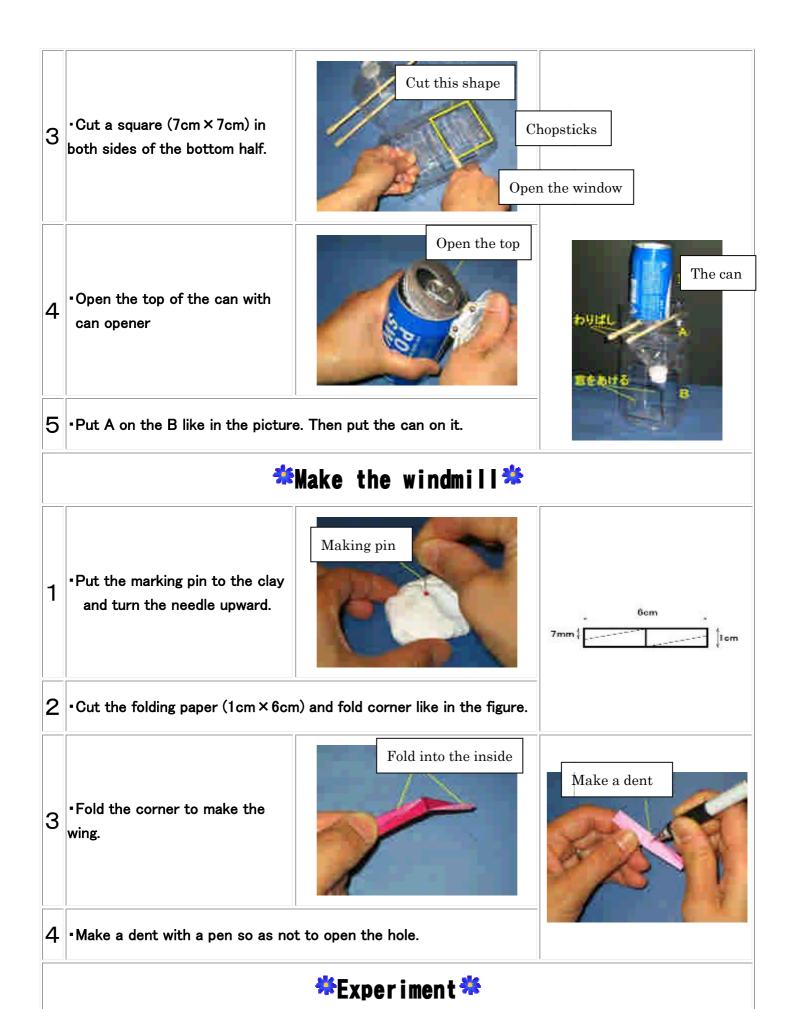
### \*Make the equipment for the experiment\*

•Cut the PET bottle and separate A and B like in the picture.

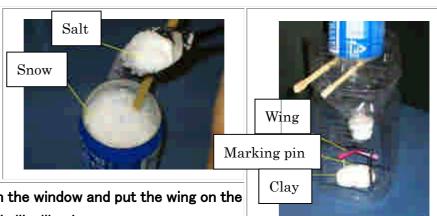


Make holes

2 Open four holes near the mouth to 10cm and insert the choopsticks to be parallel.



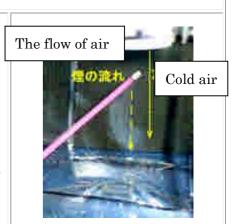
•Put snow(60∼80g) and 1 salt(20g) into the can and mix them.



Put the clay in the bottle through the window and put the wing on the needle. Observe whether the windmill will spin or not.

## Information

- If you cannot get the windmill to spin, you should change the wing shape.
- The temperature in the can becomes −21°C so the cold air is heavier than the air around the can. This phenomenon is called a descending air current.
- ▶ If the different temperature between the air around us and the air around the can gets bigger and bigger, the descending air current will be strong.
- ❤You can see the moving air if you introduce some smoke.



たんちょう先生トップページに戻る