

NOT FALL WATER INSIDE CUP



Let's try science magic that when water is poured into the paper cup, and turn upside down for a short time, water will not fall.



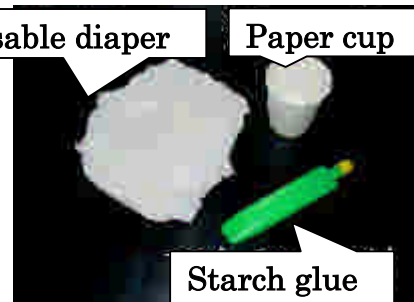
Thinking common suction polymer property

MATERIALS

- Paper cup
- A disposable diaper
- Water
- Starch glue
- Scissors

A disposable diaper

Paper cup



Starch glue

 Take out grain 

1

Cut the disposable diaper to open it.

Take out small grain(suction polymer) inside the cotton.

* There are small cottons that will come out together with the grains. Make a way to remove it from the grains.



2

Coat the bottom of the paper cup with starch glue.



Put the grains of disposable diaper into the paper cup with starch give.

🌸Let's! Magic🌸

1

You already prepared a paper cup with suchon polymer, show inside of the paper cup quickly to confirm that the cup is empty.



Inside is empty.

2

Pour water into paper cup quietly.
* Pour water about 1cm deep.



Pour water into paper cup slowly.

3

Shake the paper cup lightly.
* Take few minutes for the polymers to absorb the water and become solid.
(The time of absorption of the polymers depends upon on the kind of diaper.)
* Make a short talk until the water becomes solid.



Harden! Harden!

Slowly turn the paper cup down ward.

4 Water did not fall!!

Send to the power, turn inside out...



Polymer's suction

Suction polymer is use in global scale project to plant in desert. Suction polymer is use everywhere. Let's try to look different kind of it. How many water suction are there?

💡 Information



💎 Inside of the disposable diaper are grains of suction polymer. Suction polymer absorbs water, that is several hundred times its own volume. There are different kind of suchon polymers, consumers use it depends upon their purpose which is to become solid immediately or for a long time.