

Where are

the Water Bears?

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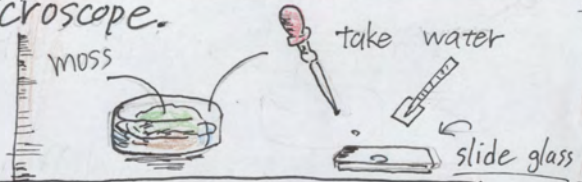
### The experimental procedure

1. We took many mosses from the school ground.
2. We made under water mosses in a petri dish because the water bear was in cryptobiosis so it returned to its usual state.
3. Take water that put into the plate then made slide glass.

We observed under a microscope.

### RESULT

We were looking for them for a total of about 9 hours but we couldn't find them. But there was a water bear that died. So we couldn't do an experiment.



### CONSIDERATION

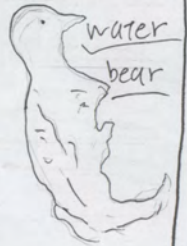
There are a difference of the number of other creatures because the type of moss is different.

So water bears may be the same as other creatures.

Our hypothesis may not be wrong.

We are totally ignorant about water bears, So we must get

more knowledge and share it with other members.



The water bear in crypto-biosis can live in strong radiation. But humans will die. Also, If they were to stay in space, It could be living for 10 days.

Their weak point is physical attack. If you crush them by using needles. They will die.

The average life expectancy of a water bear is 3 months. We found that water bears are delicate and very lovely. They can't stand change in environment.

So, they tend to die early by lack of food and environment such as water quality.

## Crypto biosis

Most of the water bear can live in dry environment. If it is dry the water bear also has no water and it will shrink and begin crypto biosis.

- ★ Water bear will reduce water content from 85% to 3%, they can with stand dry state.
- ★ The nematodes dry up as well as water bear.
- ★ Water bear doesn't move but it doesn't die.
- ★ Upon giving it water, it will start to move.
- ★ If water bear drying and sleeping state were to be in the various extreme environment.
- ★ Water bears can with stand temperatures of  $151^{\circ}\text{C}$  to  $-272.9925^{\circ}\text{C}$ .

## Purpose

We observe a reaction and an action when we put a water bear in various conditions.

o We checked whether population of water bears and the kind of the water bear change according to the place or not.

## Hypothesis

The water bear like the wet environment in the moss. That means, according to the kind and environment of the moss, will population of water bears and the kind of the water bear change?