Are there any familiar things that can promote the decomposition of raw waste?

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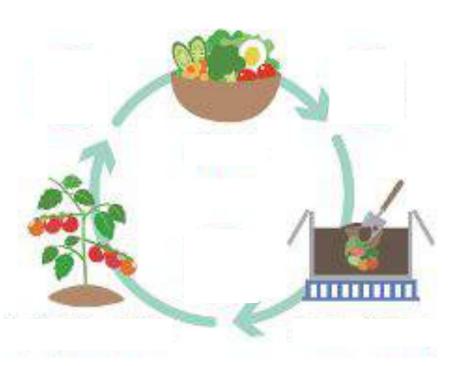
### 1.Introduction

⟨purpose⟩

OEffective use of raw waste

OTo spread "compost" to homes





### Previous research conducted [How can compost be changed by raw waste?]



#### **©**Result

The amount of nitrogen, phosphorus and potassium didn't change in all composts

Why did they not make a difference?

### We found that rice bran was the cause!

Rice bran is very nutritious.



So, the composition of rice bran can have a great effect.



As a result, there are no difference.

We cannot use rice bran in this experiment.

## Is there any things that can promote the decomposition of raw waste?



How can we make composts quickly and easily with things we have in house?



**(Research Question)** 

Are there any familiar things that can promote the decomposition of raw waste?

### 2.Method

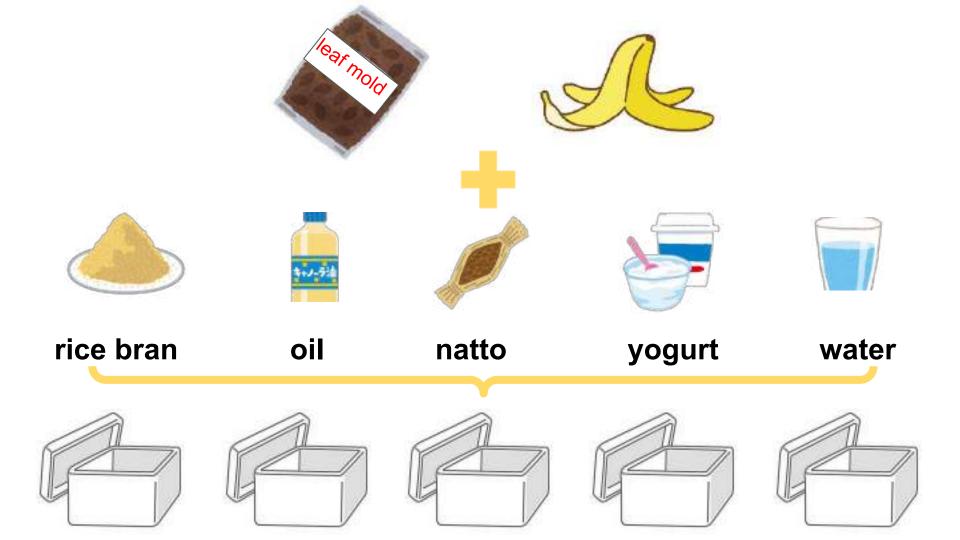
### make compost



# Check the change of size and shape of banana's peel

### <Method>

- OWhat we used
- •banana's peel 230g × 5 •thermometer
- •leaf mold 500g×5
- box made of foaming polystyrene 5boxes
- yogurt water (yogurt5g and water500ml)
- •rice bran water (rice bran45gand water500ml)
- •natto water (natto45gand water500ml)
- •oil (10ml)
- •water (50ml)



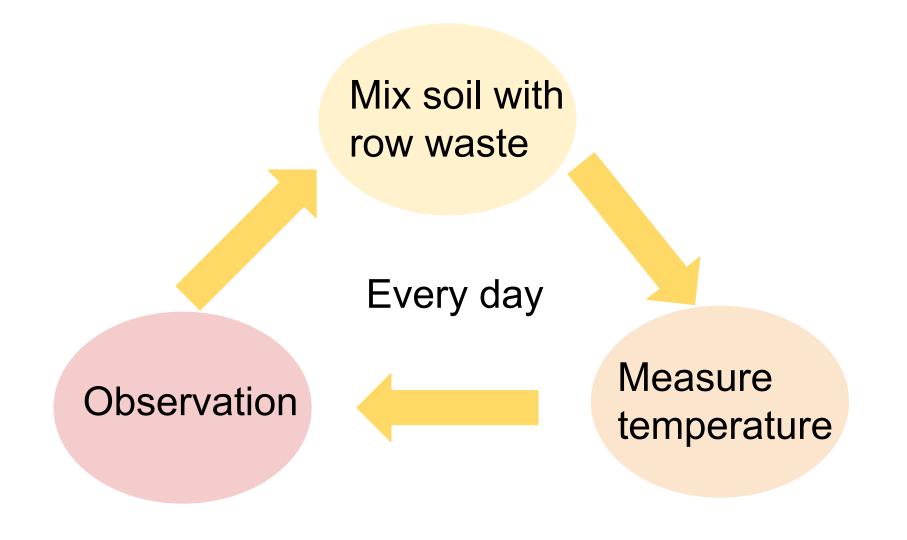
### Inside the compost

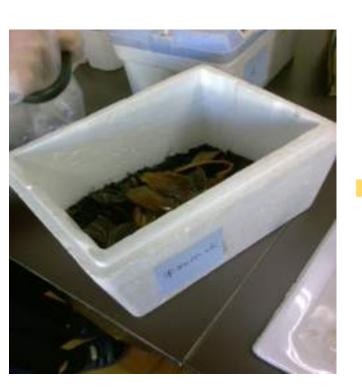


Leaf mold



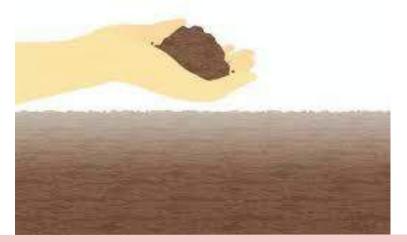
Put the boxes in the incubator





Take out the soil

### Observation



### 3. Hypothesis

oil···can decompose fastest

rice bran, yogurt, natto

··· the speed of decomposition is about the same

water...can decompose slowest

### 4.Result

(rice bran)

after two weeks

earliest at decompose







after four weeks

only bunch

lecomposed

ge te p 34.5°C

noothly

bark was decomposed completely



### (yogurt and water)

after a week

soil didn't dry easily

two weeks





#### (yogrut and water)

only bunch

after four weeks



emp 34.0°C

decomposition proceeded most smoothly from the first week to the second week

softened quickly

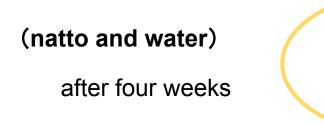
### (natto and water)

after a week









only bunch

ge tel p 34.5°C was not



(water)

after a week

after two weeks

became small and thin





(water)

after four weeks

became small and fragile



np 34.4°C

the soil was dry

the barks became finer and softer, but the shape didn't completely decompose (oil)

after a week

tend to be dried

after two weeks

thin and soft





(oil) after four weeks

was not decomposed



34.8°C

tem

gross was seen on the surface of the barks

softened quickly

### 5 Consideration

⟨Research Question⟩

Are there any familiar things that can promote the decomposition of raw waste?



**(Answer)** 

We can use yogurt and natto.

