

## 1. The contents of our lesson

### Sugar for sweetener

Coke Taste Test Challenge!

- To make the students be interested in low-calorie beverages and the lesson

Let's discover the feature of low-cal beverages!

- Experiment
- To tell one of the differences between the sweeteners in ordinary coke and zero coke

How do sugar fatten men?

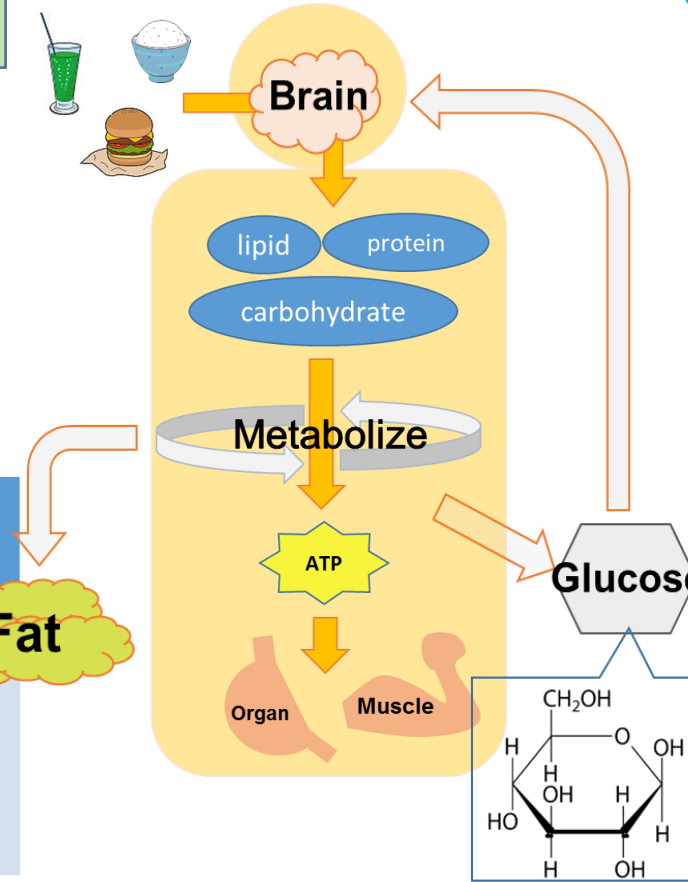
- To know sugar metabolism

Synthetic Sweetener

- To know about synthetic sweetener and start thinking how to manage the intake of synthetic sweetener

Discussion

- To deepen thinking of managing the intake of natural sugar and synthetic sweetener

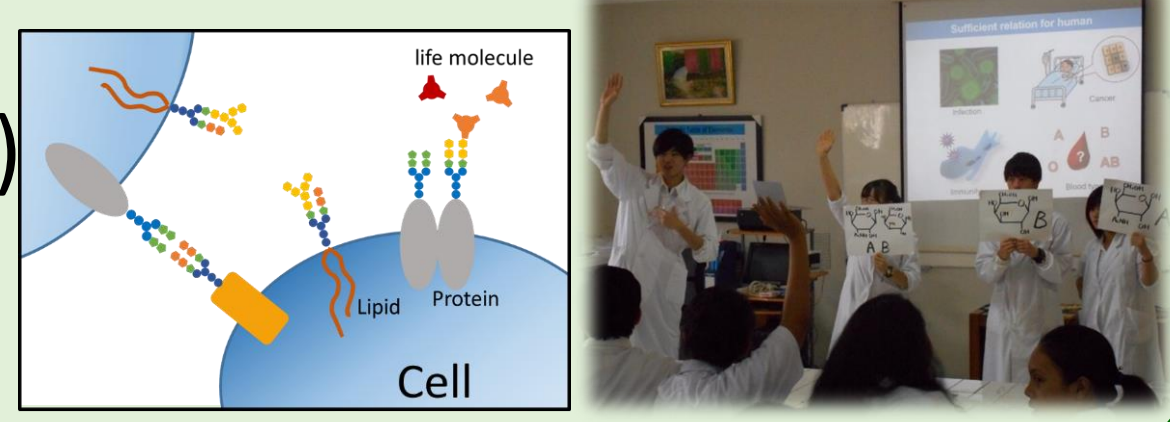


### Sugar for medical technology

Diagnosis of Mycoplasma Pneumonia

- To come in contact with the advanced research of sugar chain for medical technology
- To know that sugar has many function and chance and be interested in the advanced research

- Several style and roles of sugar. (sweetness, structural components, biomolecules)
- Another importance of sugar except as foods.



- Relationship between sugar and our life. (especially for infection disease)
- Mechanism of infection and immunity.

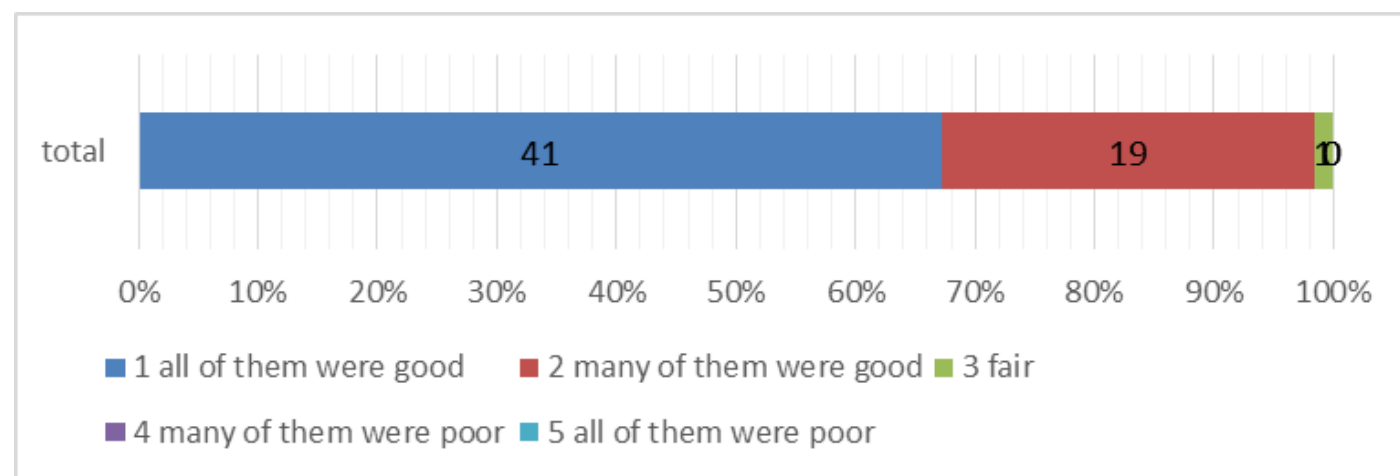


- Medical technology which was created by application of sugar.
- Sugar remaining possibility which can improve our life quality.

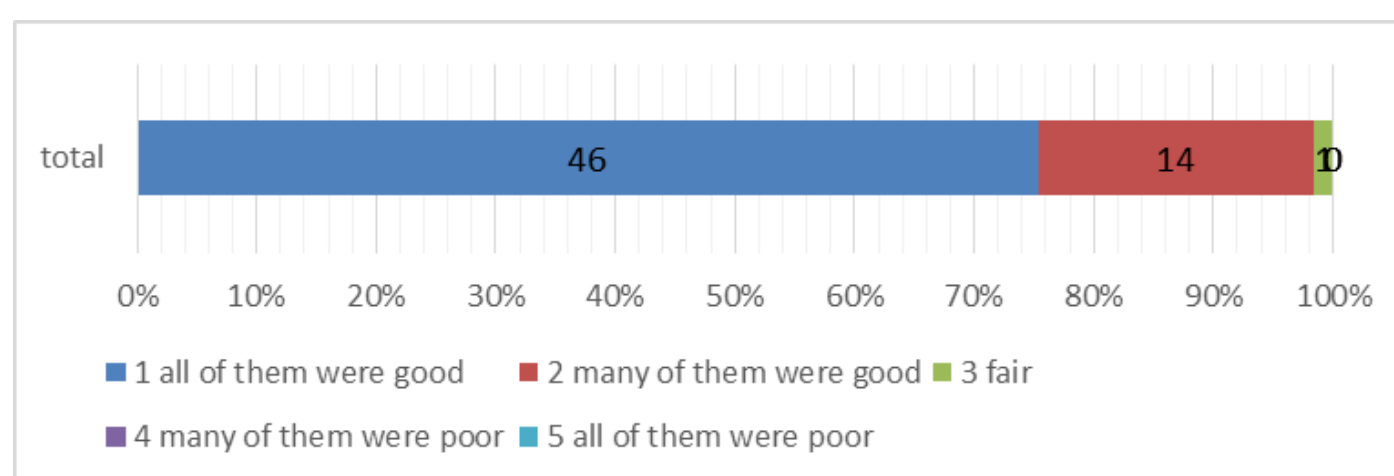


## 2. From Questionnaire

Q2-1. How do you evaluate the handouts or some materials by the lectures in your class?



Q3-1. How do you evaluate the lecture, experiment or some activities in your class?



Highly acclaimed by almost all students!!

- Using the methods of **active learning**
- Keeping in touch with IPB students to **know the reality** of high school students in Indonesia
- Not missing to **check the condition** of the experiment room and equipment

All of the materials are in good conditions and there's no lack of the materials.

From Questionnaire

## 3. Sharing Practices in Daily Life

Environment Lesson

The purpose of this section :

- How to reduce domestic waste water
- How to separate garbage in Japan
- The meaning of "MOTTAINAI"

Realization

- The practice of each country is different
- Not only the students but also we got something new!!

Earthquake Lesson

The purpose of this section : To learn evacuation behavior when an earthquake occurs.

Contents

- The rule of evacuation in Japan "o·ka·shi·mo"
- Experience of Japanese fire drill

Realization

- Telling the students fire drill is difficult but it could give them new knowledge.

Don't push ("o" ※「おさない」)  
Don't rush ("ka" ※「かけない」)  
Don't speak ("shi" ※「しゃべらない」)  
Don't return ("mo" ※「もどらない」)

## 4. Our Lesson and Active Learning

Essential skills to live in today's turbulent world

Gathering and selecting the necessity from so much information by themselves

Deciding what is correct depending on time and situation

The students have to think for themselves and then act

They have to be active!!!

very interesting, active and simple  
From Questionnaire

Using the teaching materials familiar to the students

Making the students find many rewarding problems

Our methods to make students be active

Interesting but simple, understandable experiments

Communicating with the students many times

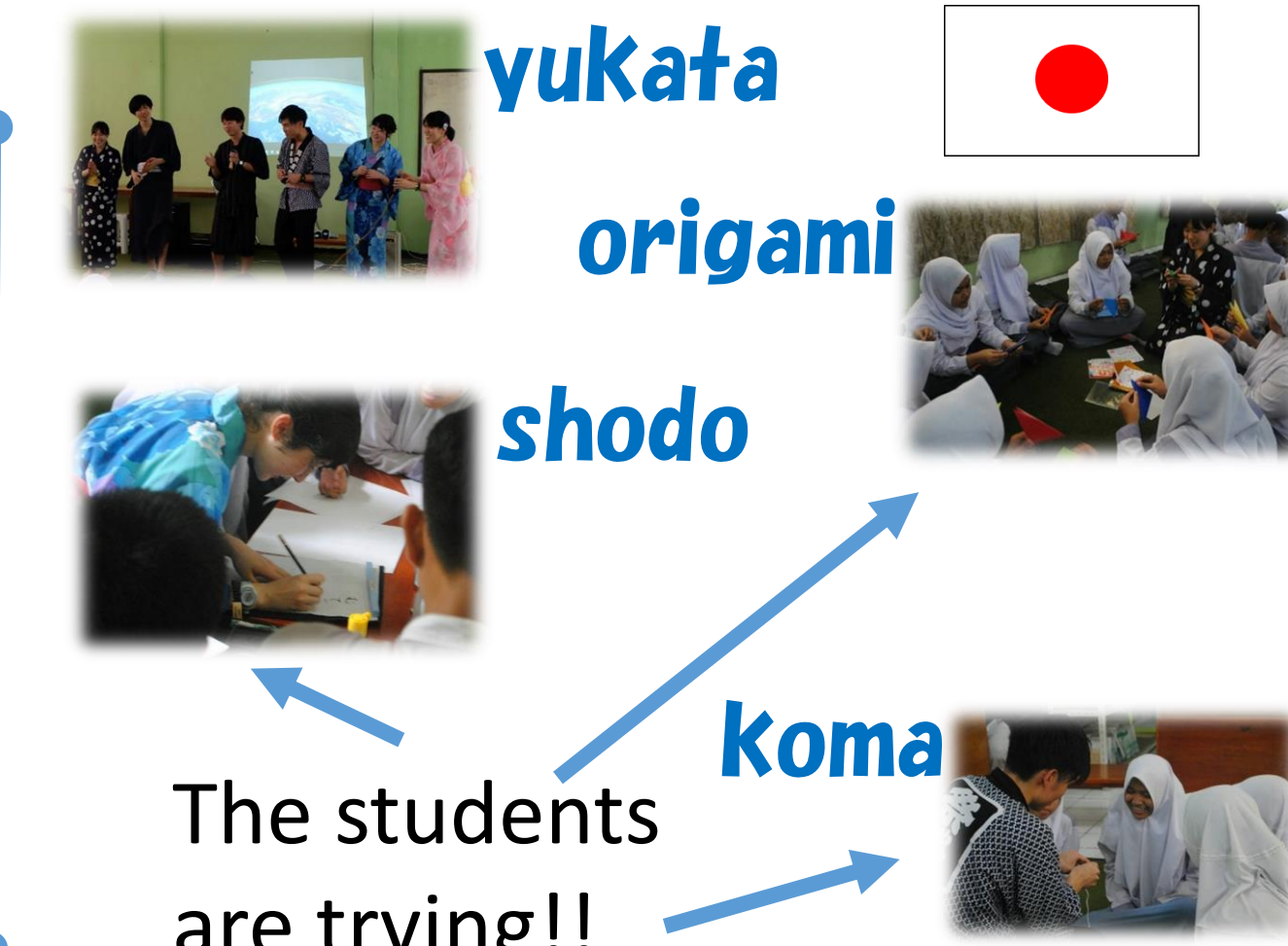
I like how they explain, very clean and step by step.  
From Questionnaire

## 5. Cultural Exchange

The purpose of this activity : To understand the culture of each other's countries

- Japanese traditional culture from Chiba university students

- Indonesian traditional culture from high school students



The students are trying!!

## 6. Other Experiences

Chinangneng Village

- Planting rice
- Washing buffalo
- Playing traditional music instruments
- Making man-shaped puppet from plant



Bogor Palace Museum  
Botanical garden



The Indonesian president Joko Widodo! Indonesian people respect him a lot.

## 7. What We Learned

Motivating students is important especially for difficult things like our topic!! I want to use this "Active Learning" methods to make my own lessons.



Yukiko

I learned difficult points of my research topic to explain to people who learn it for the first time and how to explain it clearly.

Kohei

Since the native language is different, I felt the class in Indonesia was different from Japan at first. But I learned there are many ways to communicate and the difference of our mother tongues is not a big issue. I want to make use of it in Japan.



Hiromu

The biggest thing I found in this program was that it doesn't matter that students and teachers have different mother tongue only if they cooperate on understanding each other.

Kana

I'm taking a teacher training course. Through this program, I learned how to make a lesson. I can use this experience for my teaching practice.



Momoko