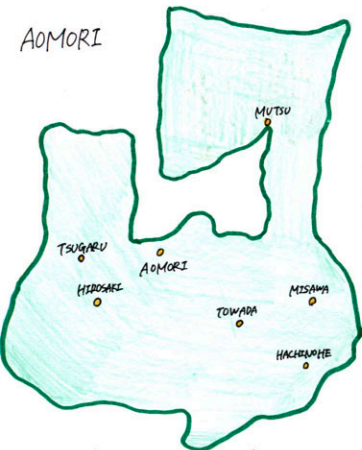


# PRODUCTION

AOMORI



The apple's production in 2019

JAPAN	820,000 tons
AOMORI	470,000 tons
WORLD	84,630,000 tons
CHINA	40,920,000 tons

Kinds of apples in Aomori



Kinds of apples

WORLD	15,000 kinds
JAPAN	2,000 kinds
AOMORI	50 kinds



# APPLE'S SKIN

The peel has many polyphenols. Polyphenol has a lot of functions. For example, it removes cholesterol and it holds back activated oxygen.

Also, polyphenols are effective because it helps control cancer. Recently, scholars found that polyphenols prevent beauty marks.



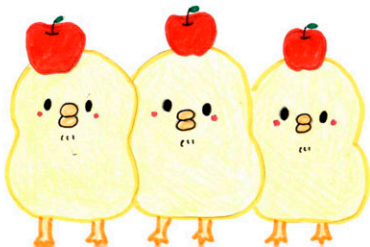
Wirosaki Minami  
High School

12 HR 8 GROUP  
MEMBERS

# PURPOSE



Aomori has many healthy foods,  
but people don't eat healthy foods.  
So we pay attention to apples  
because they are produced in Aomori  
a lot. We want people to eat it  
more, so we researched the  
nutrients of apples so you will  
be able to know about them.  
Please look in this pamphlet!



# APPLE'S NUTRIENTS

## Organic acid

Apples help the function  
of the stomach and intestines.  
They remove fatigue and prevent  
backache and stiff neck!!

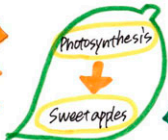
## Potassium

Potassium discharges  
biological salt and it is  
said to be effective against  
high blood pressure.

## Pectin

An apple's peel has lots of  
pectin. It promotes the  
digestive system. Then, it  
has an action that gets rid  
of cholesterol. It also has an  
effect that prevents constipation  
and colon cancer.

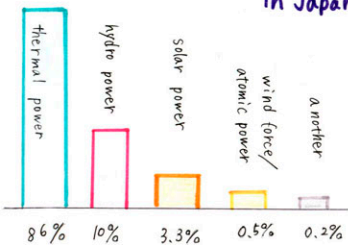
# SWEET APPLES



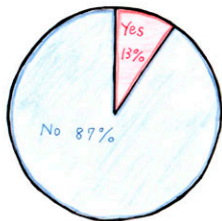
Apples become sweeter apples with more  
sunlight. It takes a lot of sunlight to  
make nourishment in the leaves.  
The nourishment made by photosynthesis  
is made into glucose. Then, it goes  
into apples. So, apples become sweet  
apples from sunlight. The most  
important thing is that it takes  
a lot of sunlight!!



### 3. Types of Electric Power Generation in Japan



### 4. Interest level



We asked our classmates!

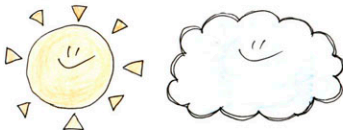
"Are you interested in electric power generation?"  
A boy said to us, "I have an interest in it.  
I want to know how to make electric power."

### 5. Aomori can...

- Use more hydro power because we have a lot of meltwater.
- Use more wind power because there aren't so many people.
- Have enough electric power because of atomic power plants.
- Put more solar panels because we have many places.

### 6. Consideration

- We have to reduce thermal power plants for the global environment.
- We have to do suitable electric power generation for the environment.
- We have to know more about electric power generation.



## ECO-friendly energy



12HR Group 7

# 1. Motive

We don't know about energy electric power generation very well, So we want to research about it.

## 2. Electric Power Generation in Aomori

### \*Atomic Power Generation\*

makes steam in boiler from atomic power. steam goes to the turbine. The turbine moves and makes electric power with a machine.

#### ⊙merits

- Can supply steady electrical and very high electrical power.
- Electric power generations cost is cheap.

#### △demerits

- We should be careful when using fuel rods.
- Fuel rod and power plants become dangerous radioactive wastes.



### \*Wind Power Generation\*



A big propeller is moved by the wind generates power by wind force.

#### ⊙merits

- It doesn't need cooling water.
- If wind is blowing, it can make electric power all days.

#### △demerits

- Fluctuating electric power level.
- It is often struck by lightning.



### \*Hydro Power Generation\*



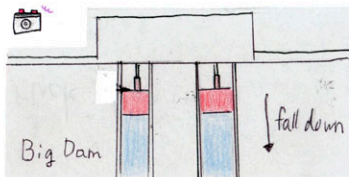
Fall down hydro power into electric power. A turbine is moved by falling water, turns movement into electric power.

#### ⊙merits

- Not easy to stop electric power generation.
- Doesn't produce greenhouse gas.

#### △demerits

- Can't build new Dams in Japan.
- If there isn't enough rain, it can't generate power.



### \*Solar Power Generation\*



Solar panels make electric power. Solar panels are put on roofs.

#### ⊙merits

- Doesn't produce greenhouse gas. Can be used for every house, so the electric bill is down. Can be put many more places than the others.

#### △demerits

- Can't generate power at night.
- Solar panels are expensive.

