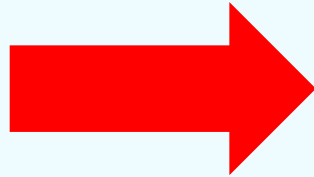


The background is a light blue gradient with various underwater-themed illustrations. In the top left, there is a green seaweed-like shape. In the top center, an orange starfish is positioned above the main title. In the top right, there is a large, branching orange coral structure. In the bottom left, there is a yellow branching coral structure. In the bottom center, a small black and yellow striped fish is swimming. In the bottom right, there is a green, U-shaped object resembling a piece of coral or a sea slug. The main title is centered in a large, bold, blue font. The school name is centered below the title in a smaller, dark blue font.

A solution to Indonesia's Water Problems

Wakayama Shin-ai High School

In Indonesia...



Effects

People get food poisoning from tap water that contains bad bacteria.





To save those people...

We set our sights on coral in Indonesia.

Water purification

1. Photosynthesis
2. Mineral release



A purifying action occurs.

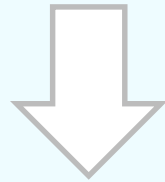
The background is light blue with several circular bubbles of varying sizes. On the left side, there are stylized coral branches in a darker blue color. The text is centered in the upper half of the image.

Another way

【Using dead coral】

Detail

Bacteria begin to live on dead coral.



They filter out ammonia and other substances in the water.



Our idea

Making filters with dead coral.





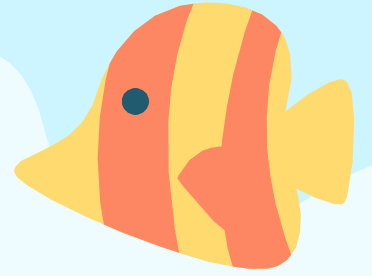
But

When this mechanism is applied to water purification, the bacteria in the water cannot be completely removed.

Therefore

Use silica, a natural ingredient with advanced bacteria killing effects.





Natural substance Silica

Silica is a type of mineral also called silicon.

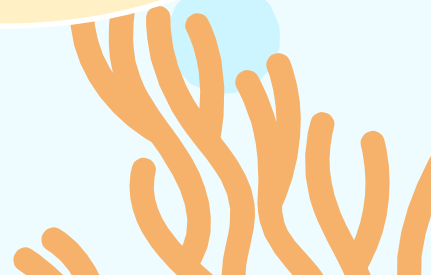
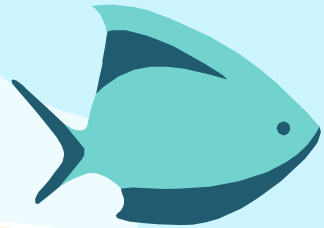
Sterilization effect of silica water

| bacteriological test | basis | 5 min later | |
|-----------------------|-------------------|----------------------|--------|
| staphylococcus aureus | 1.9×10^5 | viable cell count | < 10 |
| | | rate of decrease (%) | > 99.9 |
| Escherichia coli | 2.2×10^5 | viable cell count | < 10 |
| | | rate of decrease (%) | > 99.9 |

Coral

x

Silica



Thank you for listening.

