

Stop Global Warming

1. Motivation behind Research Paper

These days, global average temperature and sea level rise due to global warming have become a problem. Global warming is caused by greenhouse gases. It will change patterns of weather and also break the balance of nature if it is not stopped. According to Kansai Electric Power, the polar bear population is declining due to the effects of global warming. In order to prevent further damage to the environment, I wanted to stop the progress of global warming, so I started an experiment to reuse chalk.

2. Introduction

We did a chalk recycling experiment to reduce trash and carbon dioxide emissions. I wanted to work on ecology to reduce carbon dioxide, so I researched ecology that I could do around me. What we can do is not leave food behind and save water and electricity. These three are actions that can be done easily, so I try to be careful every day. Then, thinking about what we could do in school, we turned to chalk.

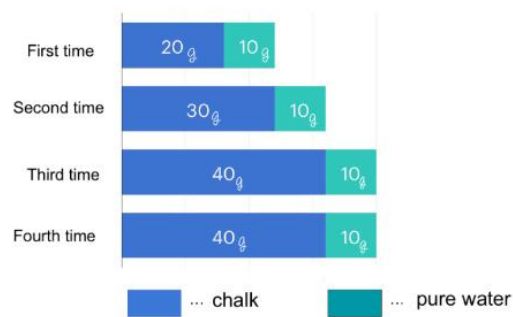
The main component of chalk is calcium carbonate, so if pyrolytically decomposes chalk, carbon dioxide is generated. The chalk that was shortened by the teachers was discarded, and in order to reduce the amount of carbon dioxide generated when it is thermally decomposed, they tried to reuse the chalk. If we

recycle chalk, we can reduce garbage and carbon dioxide. I thought it will help slow down the progress of global warming.

3. Results and Analysis

The experiment's result was a failure. The cause of failure was that the chalk and straw stuck together and it could not come out. As one of the solutions, come up with an idea that the candle will apply to the inner part of the straw, so we will try it. The second solution is to consider other things. In this experiment, I found that the straw sticks to the chalk, so I want to think about other things that can be formed without sticking to the chalk. Also, I'm thinking of experimenting with a method to create a beautiful shape by hand by further devising the ratio of chalk and water.

In addition, in the previous presentation, we received opinions such as how to use an ice bar when forming chalk, and how to upload chalk experiments to YouTube, so we are about making use of them. We did chalk experiments fourth time, all of which failed. We started this experiment because I thought I could reduce carbon dioxide by reusing chalk, but it turned out to be very difficult to put into practice. However, when we researched whether there were other ways to use chalk other than the recycled chalk we tried to make this time, we found a site called "Chietoku". The site introduces life hacks, and there are many ways to use it in everyday life.



Amount of chalk powder and water

Figure 1. Amount of chalk powder and water

4. Conclusion and Future Problems

These days, Problems such as rising global average temperatures and rising sea levels due to global warming are occurring. Global warming is a phenomenon that occurs when greenhouse gases such as carbon dioxide contained in the atmosphere are released into the atmosphere as human activities become more active, resulting in an excessive increase in the amount of greenhouse gases on the earth. The negative effects of global warming are affecting nature and animals. I wanted to stop further global warming, so I started an experiment with the reuse of chalk. We have two problems. First, It takes a long time to make it practicable because all the experiments have failed. Second, even if chalk can be reused, I don't think it can completely stop global warming.

5. Reflection

I was able to know there are eco measures that I can do myself. However, I realised that I can't stop global warming only me and to connect measures of global

warming, we need to tackle it actively on a bigger scale. Also, it is important to recognize that global warming is a serious problem around us, and to have a true understanding of what is happening in the world. Global warming is progressing too fast, and I think there are many people who think that nothing can be changed even if one person tries to do eco. But if we change our mindset and act together with our friends and family, we can reduce global warming little by little. I strongly believe that now is the time to change people's consciousness in order to make the future of the earth bright and sustainable.

6. Work Cited

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