

EXPLORATION OF CHANGES IN CARBON DIOXIDE CONCENTRATION AT THE SCHOOL ENTRANCE

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ABSTRACT

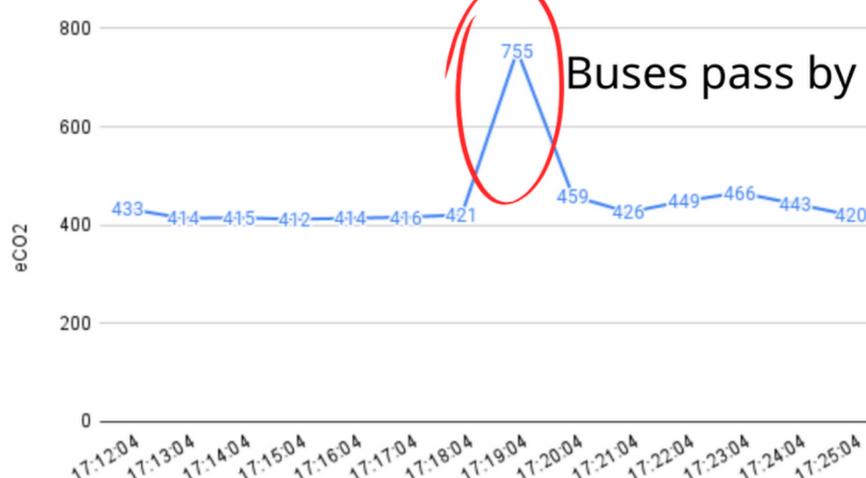
This study aims to observe and analyze the changes in carbon dioxide concentration at the school gate, and use instruments to measure the changes in carbon dioxide concentration at the school gate during going to and from school. After analyzing the data and references, it was found that vehicles are the cause of high carbon dioxide concentration during school hours, and whether the vehicle stalls or not will also affect the concentration of carbon dioxide. In addition, it was also observed that the carbon dioxide concentration on cloudy days was higher than that on sunny days, which is speculated to be related to the photosynthesis of plants.

RESULT

2023/9/25 eCO₂



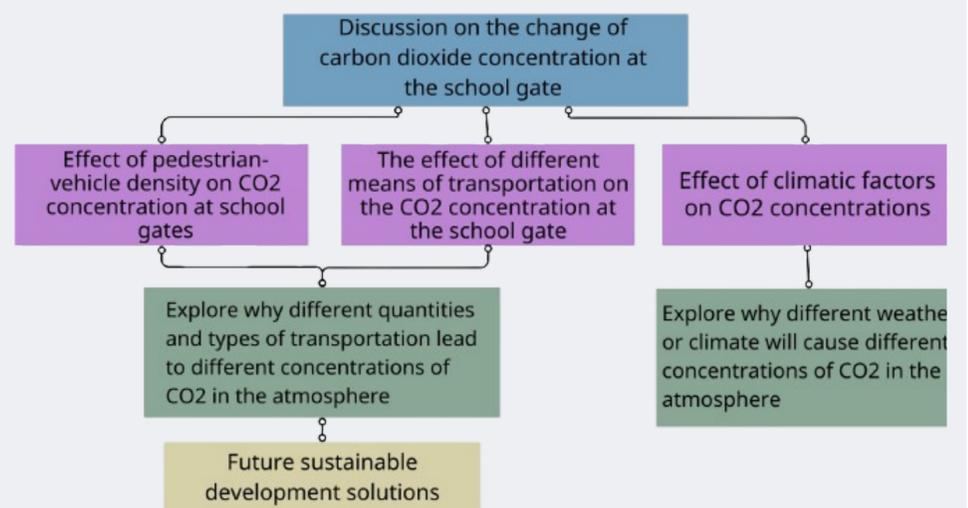
2023/10/12 eCO₂



RESEARCH PURPOSE

1. Observe the impact of pedestrian and vehicle density on carbon dioxide concentration at the school gate
2. Study the impact of weather factors on carbon dioxide concentration
3. Explore the impact of students' transportation methods to and from school on carbon dioxide concentration at the school gate

STRUCTURE



CONCLUSION

1. The more vehicles there are, the higher the carbon dioxide concentration.
2. Turning off the vehicle is beneficial to reducing carbon dioxide concentration.
3. Carbon dioxide concentration will be affected by climate and weather, which are closely related to photosynthesis.