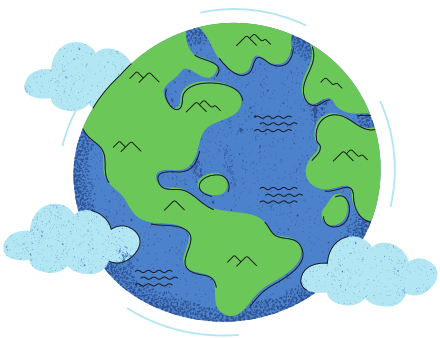
MIDDLE SCHOOL STUDENTS' PERCEPTIONS ON THE INTERACTIONS AMONG WATER CYCLE, GLOBAL WARMING, AND CLIMATE CHANGE



WATER CYCLE, GLOBAL WARMING, AND CLIMATE CHANGE

- Water cycle is a fragile system interrupted with global warming and climate change.
- Climate change influences the nature of the water cycle which leads to, in turn, some extreme weather events.
- Climate change and accelerated water cycle triggers many feedback loops with recurring chain events.

Understanding these processes through education is one of the effective ways for mitigation and adaptation of climate change. Therefore, science education and education for sustainable development (ESD) courses in middle school level could be considered two of the courses to integrate these concepts into the agenda.

AIM OF THE STUDY

This study aimed to examine how middle school students perceive the interactions among water cycle, global warming, and climate change.

358 eight grade students
52.8% Female
44.7% Male
2.5% Not specified

Approximately, one quarter of the students held misconception about the change in the amount of water on the Earth.

Approximately, one quarter of the students stated that global warming affects the water cycle negatively.

HIGHLIGHTS OF RESEARCH FINDINGS

- Minority of the students gave scientific explanations while explaining the interactions among water cycle, global warming, and climate change
- Several misconceptions were observed such as increasing /decreasing amount of water in Water Cycle.
- To be able to teach the interactions among the water cycle, global warming, and climate change, it is essential to determine alternative conceptions of the students

FOR MORE INFORMATION, PLEASE ATTEND OUR LIVE PRESENTATION AT ERC!

ENVIRONMENTAL AND SUSTAINABILITY EDUCATION
03/SEPT/2021, 10:30AM - 12:00PM

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