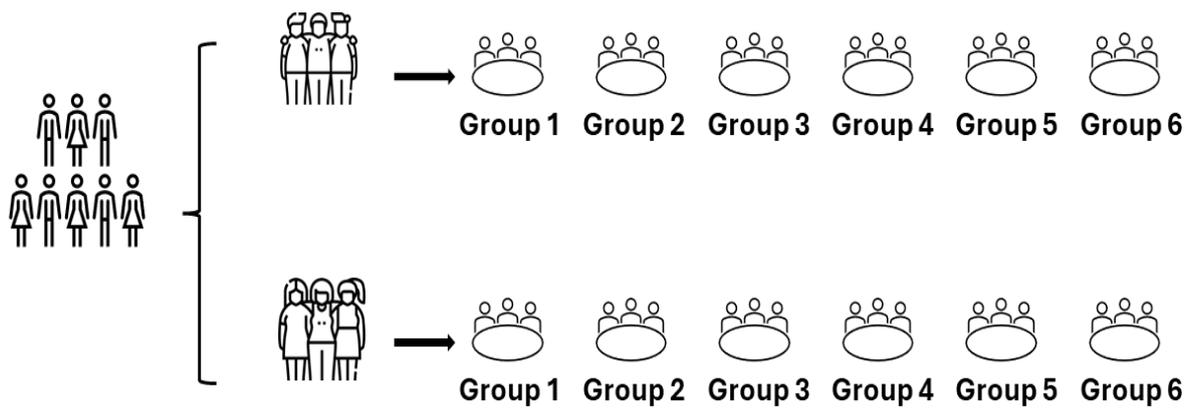


Instruction for the soil respiration course

1. Students (secondary school):

The students are divided into small groups.



2. Schedule for the class (1 hour):



Presentation
10 mins



Measurement
20 mins



Calculation
20 mins



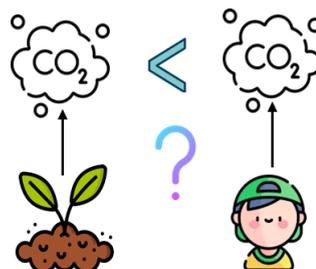
Discussion
10 mins

3. What will the students learn?

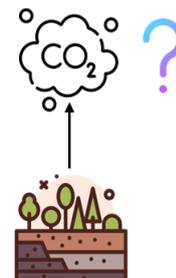
1. What is soil respiration?



2. CO₂ amount
Soil vs People

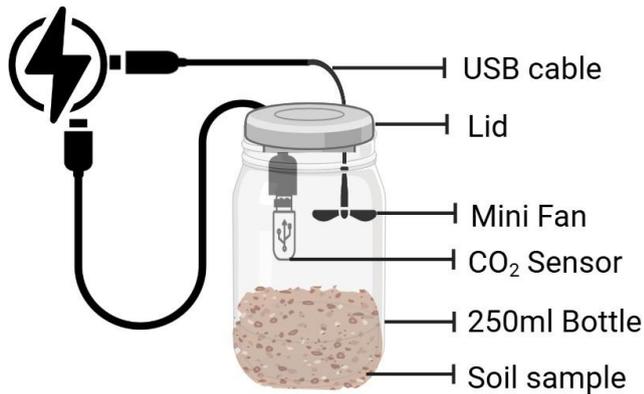


3. Amount of CO₂ produced
by 1 hectare forest soil per year



- What is soil respiration and how to measure it with a custom-designed simple system.
- How much carbon dioxide (CO₂) the soil “breathes out” compared to how much they produce in their everyday lives.
- How to estimate how much CO₂ comes from the soil in a forest about the size of a big soccer field (1 hectare) in one year.

4. What equipment will be used?



5. What will be needed before the class?

- Split the students into **6 groups for each visit**.
- Ask all the students to download the application “**Sensirion MyAmbience**” on their mobile phones.



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