



## Students' Report Group 5 on E-learning and Flipped Classroom Activities (IO4)

### Students' names and surnames and class:

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### Specific in-depth topic of own home study and why this topic has been chosen (at least 200 characters)

Studied topics for discussion:

When are remediation, restoration and repair of soils essential?

- When serious environmental contamination has already occurred.

What is water pollution?

- Change in water quality and composition, by harmful substances or energy, above maximum allowable concentrations.

What are some natural drivers of soil degradation?

- earthquakes, tsunamis, droughts, avalanches, landslides, volcanic eruptions, floods, tornadoes, wildfires

What types of water pollution exist?

- physical, chemical, organic, inorganic, biological, radiological

What are both direct and indirect benefits of better soil management?

- the improvement of efficiency and effectiveness that allows lower input costs (e.g. fertilizers)
- with proper soil management we help protect diversity by improving soil resilience and reducing the risk of pollution ->degradation of ecosystems
- improvement of the quality of food products and the vegetative growth of crops

Where do water polluting substances in agriculture come from?

- Water polluting substances in agriculture come from livestock farming, and production, process, transport and storing of food crops, non-food crops (e.g., biofuel crops) and animal feed.



What are advantages and disadvantages of biological methods for water remediation?

-Biological methods are more environmentally friendly, easily and widely applicable and usually less expensive than physical and especially chemical methods, but their disadvantage is that it takes a long time for the methods to show some results.

What is difference between point and non-point source of water pollution?

-The main difference between point source and non-point source pollution is that the point source pollution occurs through a specific, identifiable source, whereas the non-point source pollution occurs through a combination of pollutants from a large area.

**Comment about the activity done at home (at least 300 characters)**

The lessons were interesting and we learned a lot about the subject of water and soil, they were easy to follow and understand. The only problem with the video lessons was that they didn't have enough engaging visual content. The questions in the quizzes were clear and all the answers could be found in the video lessons. The e-library was easy to use and all the needed information was in it.

**Comment about the interactive activity in the classroom (at least 400 characters)**

Our classmates had very intriguing Ted talks about important issues regarding water and soil pollution and climate change. They helped us dwell deeper into the topics of the video lessons. The content of the video was excellently explained which allowed us to easily participate in the round table discussion in our classroom. Everyone had engaging questions and we were able to have a heated discussion about the topic. This was a new way of learning we hadn't experienced frequently before.