

Chemistry

Delprov A3 och B

engelsk version

Årskurs

9

Elevens namn och klass/grupp

Systematic investigation in chemistry

Your task is to plan an investigation that you later will do and evaluate.

Your teacher has taken water samples from three lakes in the surroundings: lake A, lake B and lake C. The results show acidic water samples.

You are going to investigate which of the lakes that is most acidic and which is least acidic by adding a basic solution to the water samples. To do so, you have the pH-indicator BTB you will get from you teacher.

Facts

Acidic solutions contains hydrogen ions. Basic solutions consist of hydroxide ions. The indicator BTB is yellow in acidic solutions, green in neutral solutions and blue in basic solutions.

11. Planning phase (time: 30 minutes)

You are going to plan an investigation where you will investigate:

How much basic solution you have to add to show

- which lake in most acidic; lake A, B or C?
- which lake in least acidic; lake A, B or C?



Method of investigation

Describe step by step how you will proceed in your investigation. Describe with details so that someone else can follow your plan.

Material

Specify what material you need to realize your investigation.

Leave your plan to your teacher. If needed, you will get a prepared experiment instruction to carry out your investigation.

Comments from the teacher Use your own plan Use the prepared experiment instruction

Adjustments:

12. Investigation (time: 30 minutes)

You are going to carry out an investigation where you find out:

How much basic solution you have to add to show

- which lake is most acidic; lake A, B or C?
- which lake is least acidic; lake A, B or C?

In your investigation, you are going to:

- work according to your plan or the prepared experiment instruction.
- consider the safety instructions your teacher has informed about.
- take notes on your measurements.





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