



Geographical Investigation on Water

Importance of Fieldwork

- One would love and understand Geography concepts better.
- It provides a hands-on and better learning experience
- Apart from that, in Upper Secondary Level, Fieldwork is a component that they are required to study.
- This component will be part of your National Exams as well.
- This scaffolds your learning as you progress to your Upper Secondary Levels.

Today's Lesson!!

Pre - Fieldwork

Objectives

- To create interest in students for fieldwork
- To make students realize that they can learn many things within their school and outside their class
- To expose them to the challenges that they may face during fieldwork

Getting into your Groups

Instructions

- You will be put into groups of 4 or 5
- DO NOT complain about your groupings as you have to learn to work with anyone and everyone in your class for your projects
- When you know your group, you are required to take your required stationery and shift to the place allocated by your teacher for your group in class

Getting into your Groups

Instructions

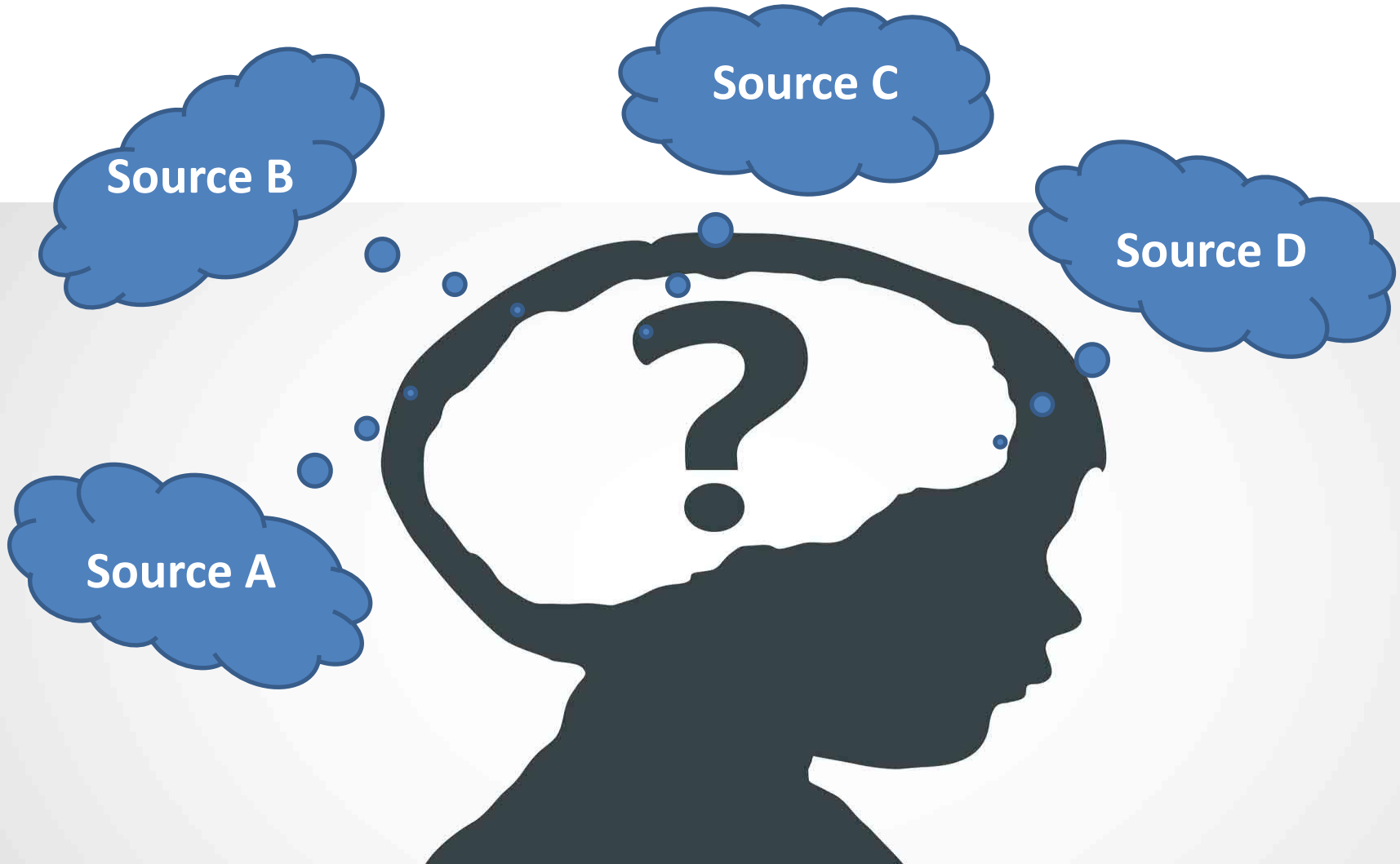
- Once in your group, you are required to decide who will be taking on these roles:
 - Leader
 - Resource Manager
 - Time Keeper
 - Recorders (2)
- You will be given 2 minutes to decide on your roles



HOW CLEAN IS OUR WATER?

Sparking Curiosity – Refer to Page 2

How can you tell whether which water is 'drinkable'?
Let's try this experiment and see whether you can guess.



There will be four containers filled with water from four unknown sources which will be given to you!



Instructions

- **Handle the containers with care to avoid any spills.**
- **Do not attempt to taste the water from the containers as you are not too sure where they are from yet.**
- **Select one person to be the Group Leader.**
- **Group Leaders will be called out and you will be handed four containers for your group.**

Instructions

- You will be given about 4 to 5 mins to observe each container and to record your observations.
- At the end of the lesson, it will be the duty of the Group leaders to carefully return back all four containers to the teacher.

Refer to Page 2 of your GI worksheet

When you are out to collect data, your observation skills are always put to the test!

**So Let's Get
Your Senses
To Work**



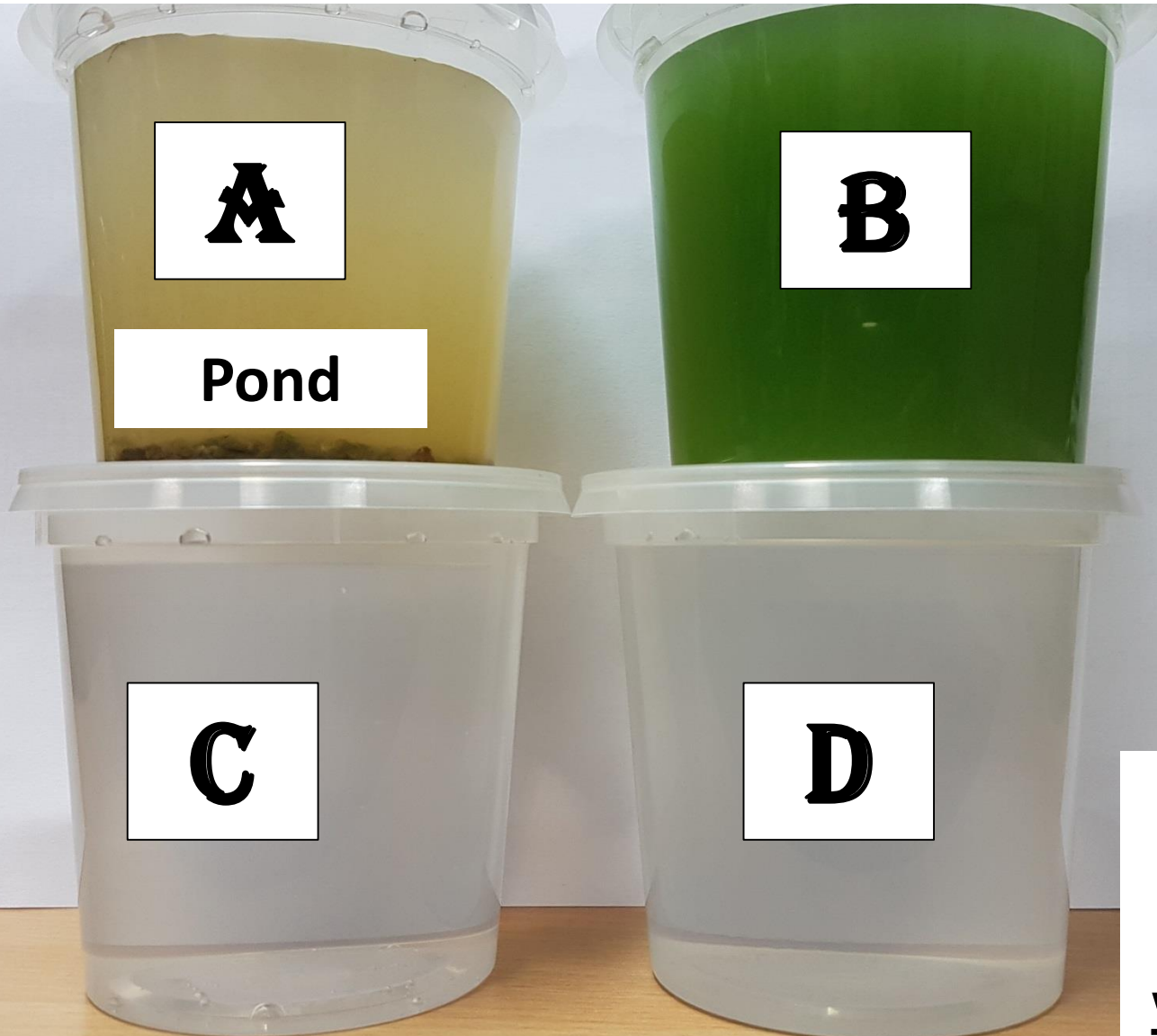
Refer to Page 3 of your GI worksheet



**WHICH ONE IS
SAFE TO DRINK?**

A B C or D ?

Let's guess where the water came from!



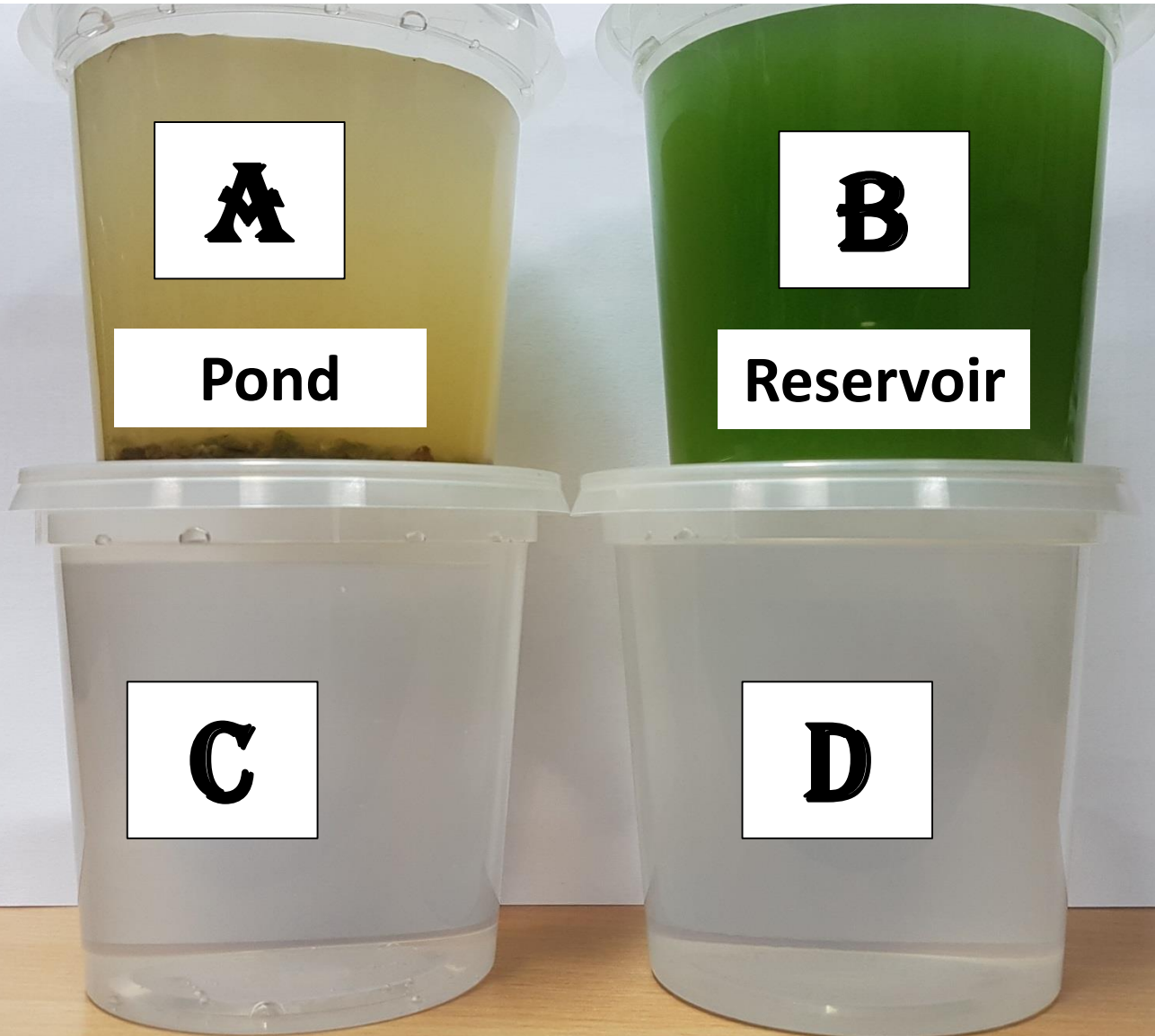
Pond

Refer to
Page 3 of
your GI
worksheet

From the pond in your school!



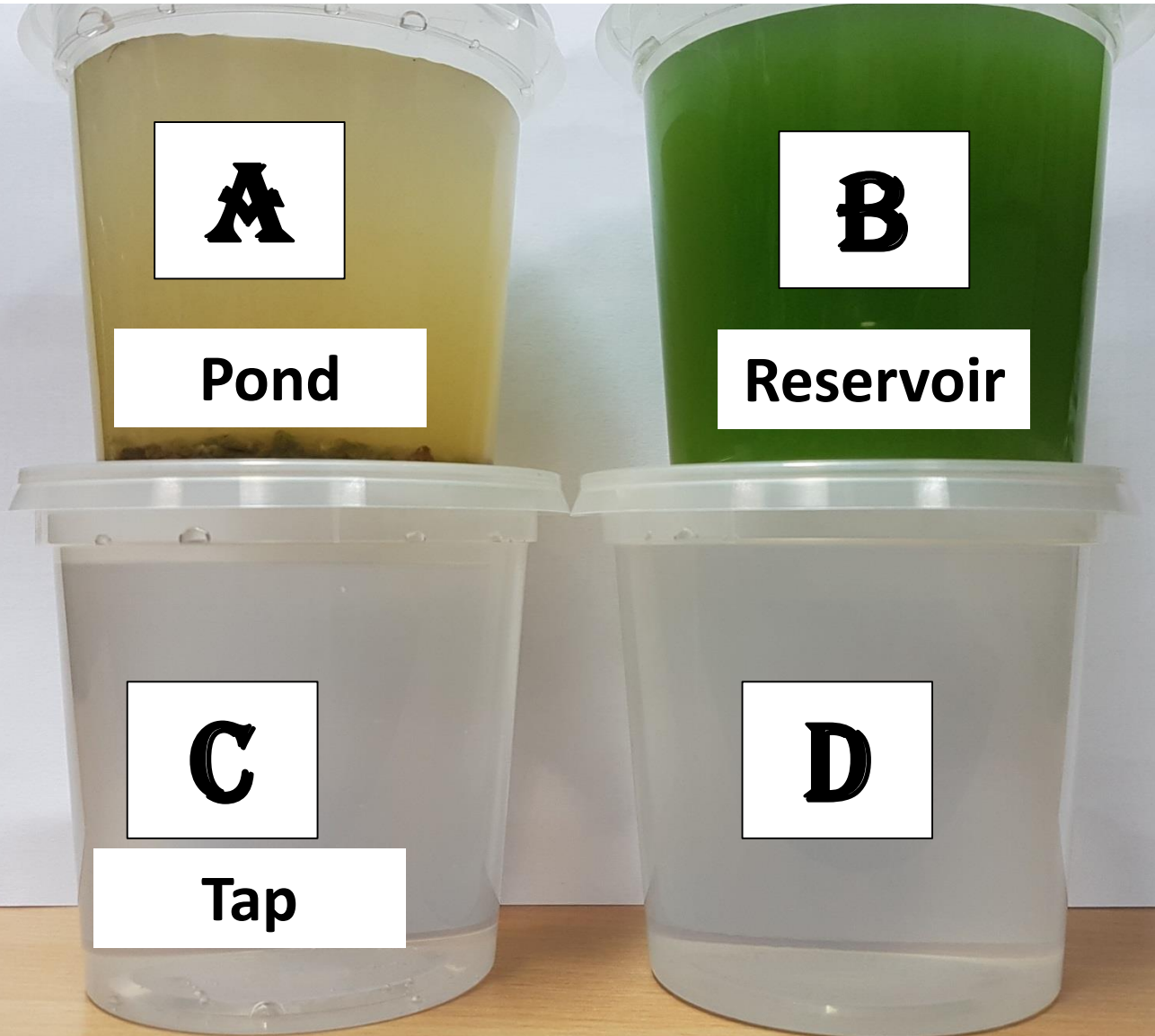
Let's guess where the water came from!



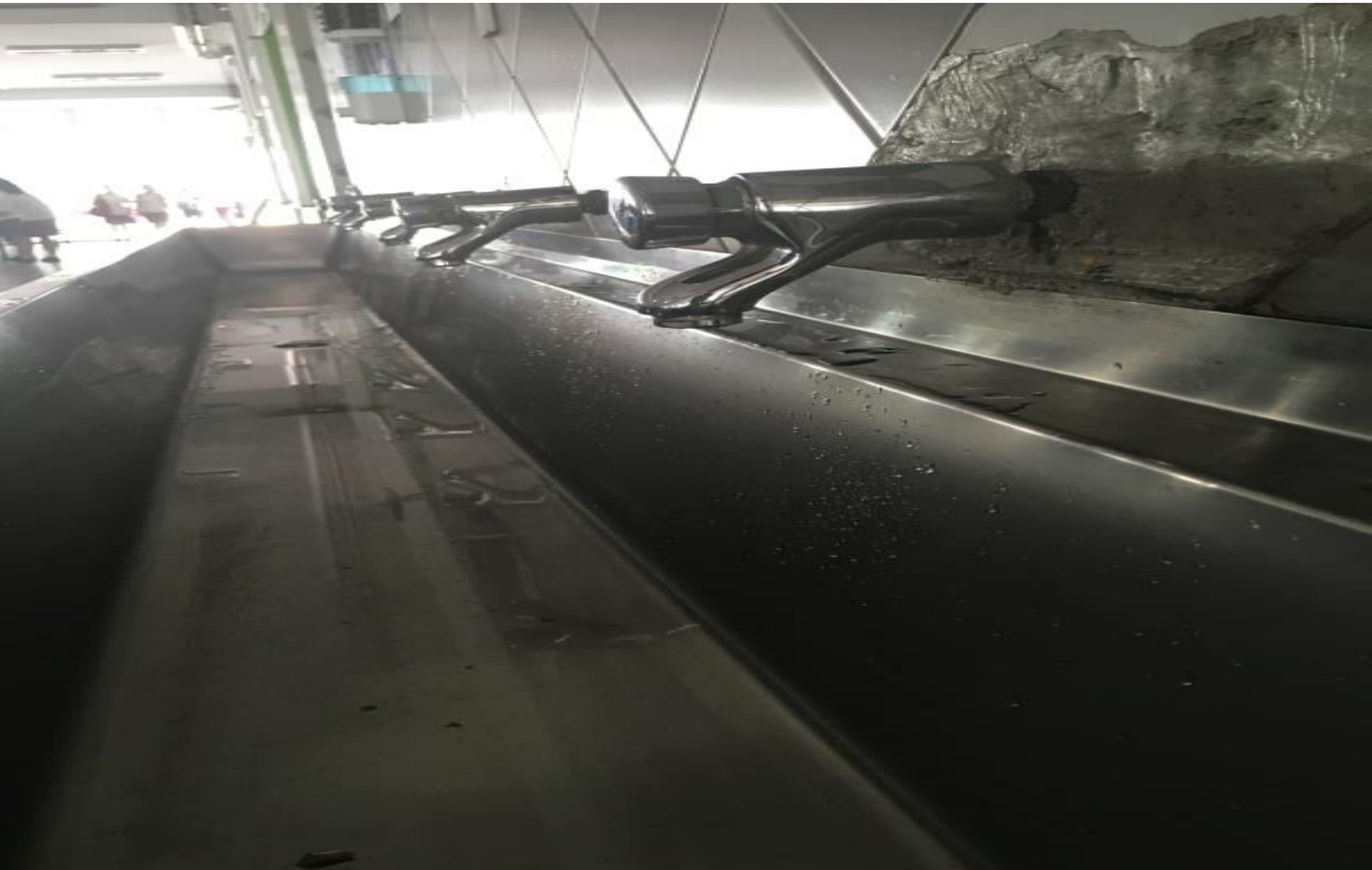
Kranji Reservoir



Let's guess where the water came from!



Tap Water



Let's guess where the water came from!

A

Pond

B

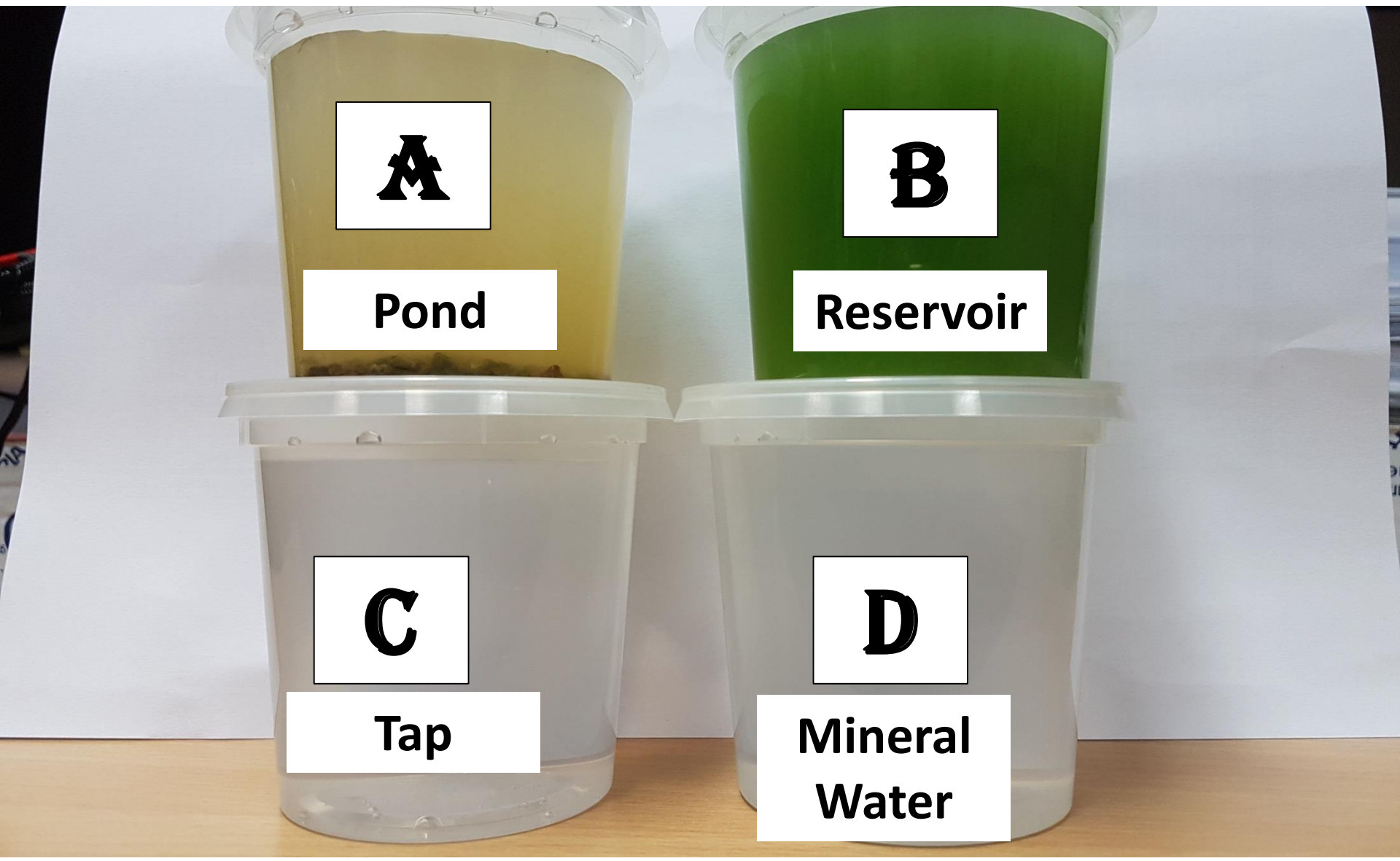
Reservoir

C

Tap

D

**Mineral
Water**



Mineral Water



Did you get them all correct?

A

Pond

B

Reservoir

C

Tap

D

**Mineral
Water**

**DO YOU THINK IT IS
ENOUGH TO JUST OBSERVE
IN THIS MANNER TO
DETERMINE THE QUALITY
OF WATER?**

WHY?



**That is where proper
water testing comes for help!**



Datasonde

Where will you be going to carry out your Fieldwork?



**As a preparation for your
Fieldwork, please visit the
website below:**

<http://sll.hsse.nie.edu.sg/>

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Welcome to the Sustainability Learning Lab.

This is a one-stop portal to help you understand issues and exchange thoughts related to



Happenings



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Video Materials



[Dissolved Oxygen in Water](#)



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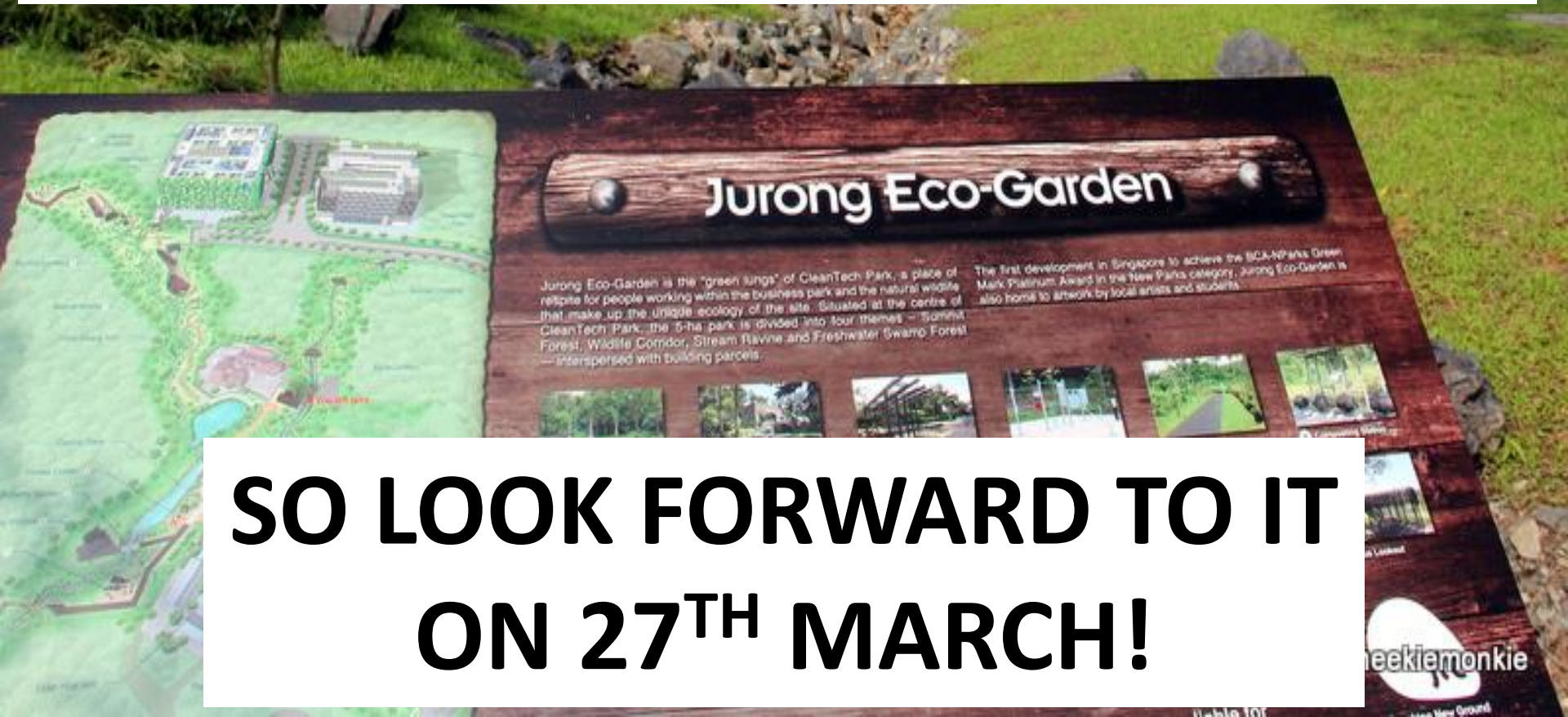


[Nutrients in Water](#)

Download the teaching & user guide

Watch the videos that show how water quality is tested using various instruments

**These are some tests
that you will be doing
during your field work!**



**SO LOOK FORWARD TO IT
ON 27TH MARCH!**