

# A comparative study on water purification at home

Presented by : S.Mahasin

Class : grade-9

School: Imam Shafi (rah) mat. Hr. Sec. School

Date :

# Introduction

- Water is something we use everyday, but not all water is clean.
- Some water has dirt, germs, or bad smell.
- In this project, I tested four types of water at home.
  1. Purified water.
  2. Boiled water.
  3. Frozen water.
  4. Dirty water.

# Objective

- The main of goal of this projective was to :
  - Compare four types of water.
  - Find out which one is the safest.
  - Understand how simple method like boiling or filtering can clear water.

# Hypothesis

- Before doing the project , I thought :
  - Purified and boiled water would be safe to drink .
  - Frozen water may look clean, but might still have germs.
  - Dirty water would be the most unsafe.

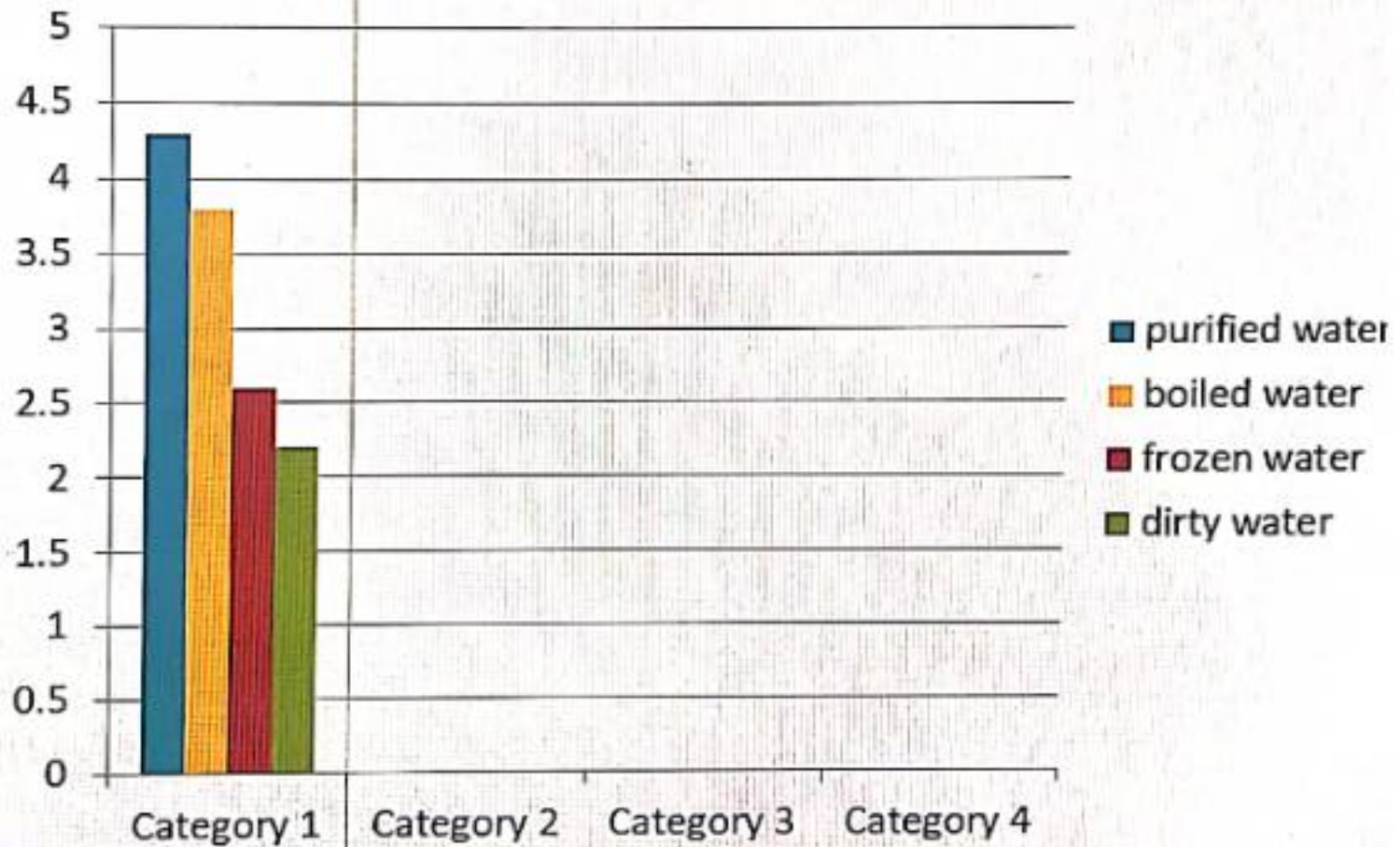
# Materials

- purified water from a water filter .
- Water that I boiled .
- Water that I froze and then melted .
- Dirty water (mixed water with mud ) .
- Four transparent glasses .
- Labels for each glass .

# Procedure

- I poured each type of water into separate glasses.
- I looked at the at the colour, smell, and particle in each one.
- I wrote down what I saw .
- I thought about which one I would drink or not

# Graph



# Result

- Purified water was the best – clear and clean.
- Boiled water was also safe – no smell or particles .
- Frozen water looked okay,but It is not safe to drink.
- Dirty water was clearly unsafe to drink – brown colour, and visible dirt.

# Conclusion

- Boiled and filtered water are simple but effective ways to purify water at home .
- Freezing does not remove germs from water .
- Ever drink water that looks or smells bad .
- clean water is very important for health.