



21. Salty water

Opponent:

Team Romania - Limitless

Reporter:

Team Greece-Alliance

Task of the problem

What is the minimum concentration of sodium chloride in water solution such that a human detects the presence of salt? Use double blind tasting in your experiments.

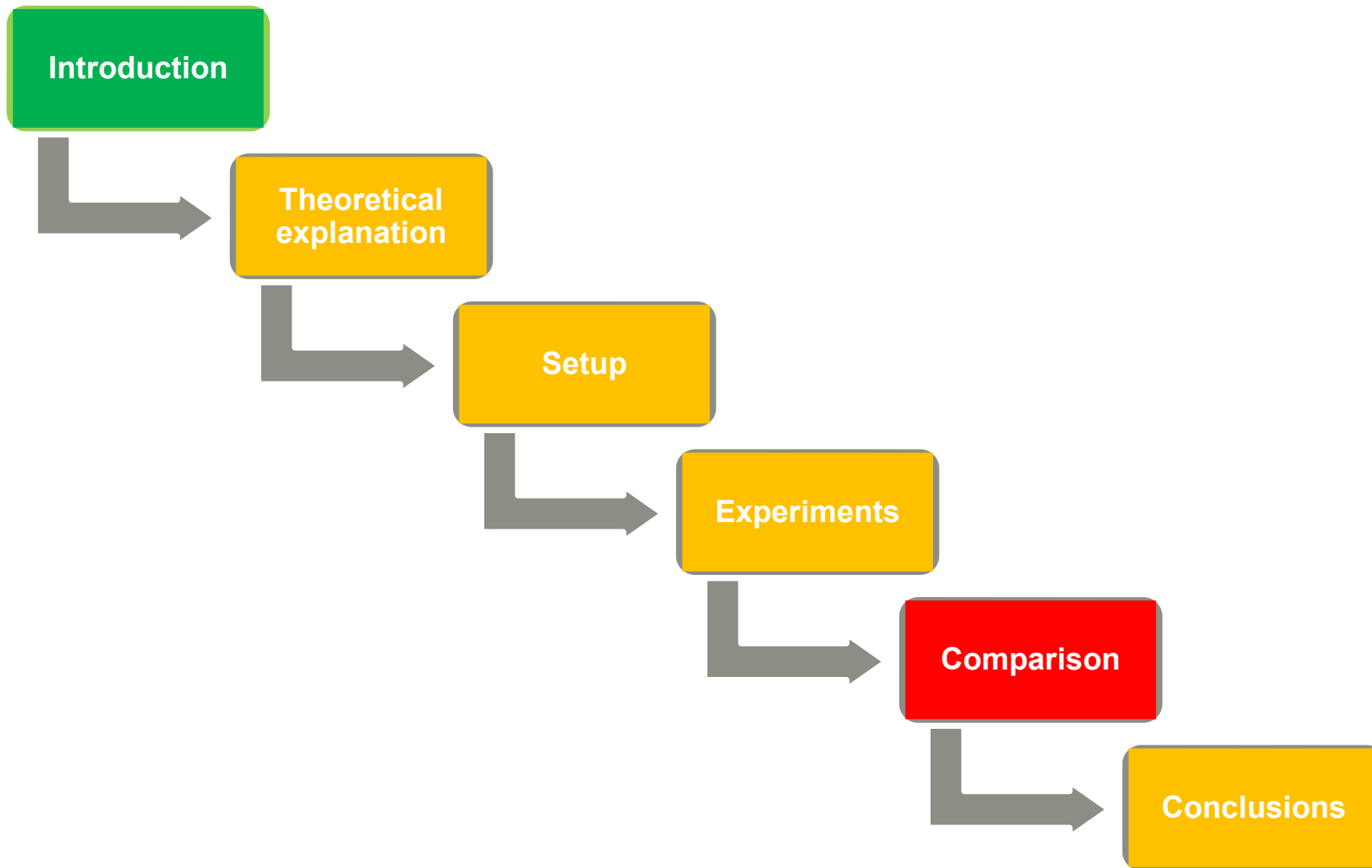
Concentration of sodium chloride

- **Theoretical information**

Parameters: temperature, molar concentration

- **Experimental Part**

Outline of the reporter



- Well done
- Good
- Needs improvement

Theoretical part



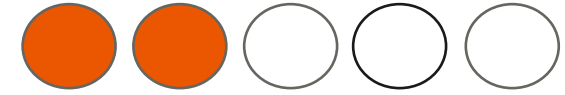
Strong points

- Good definition of terms
- Clear explanation of the phenomenon

Weak points

- Didn't fully explain her predictions
- Didn't explain how the ions are detected by the tongue.
- Didn't study if the childhood conditions affects the taste
- Didn't study some diseases that can affect the taste

Experimental part



Strong points

- The experiment reached clear results.
- Had great visual aids for the experiment.
- Made interesting experiments

Weak points

- they didn't take in account the temperature
- the method of measuring wasn't clearly explained/ clearly visualised
- the method was subjective
- they didn't calculate the molar concentration
- they didn't take into account the time
- Didn't study the minimum concentration that is detectable

Discussion topics

- Do you think that the molar concentration or the mass percentage is important for the experiment ?
- Do you think the temperature affects the experiment ?
- How do you think the temperature affects ?