9. Salt and ice

Opponent:
Team Romania - Limitless

Reporter:
Team Greece - Alliance

Task of the problem

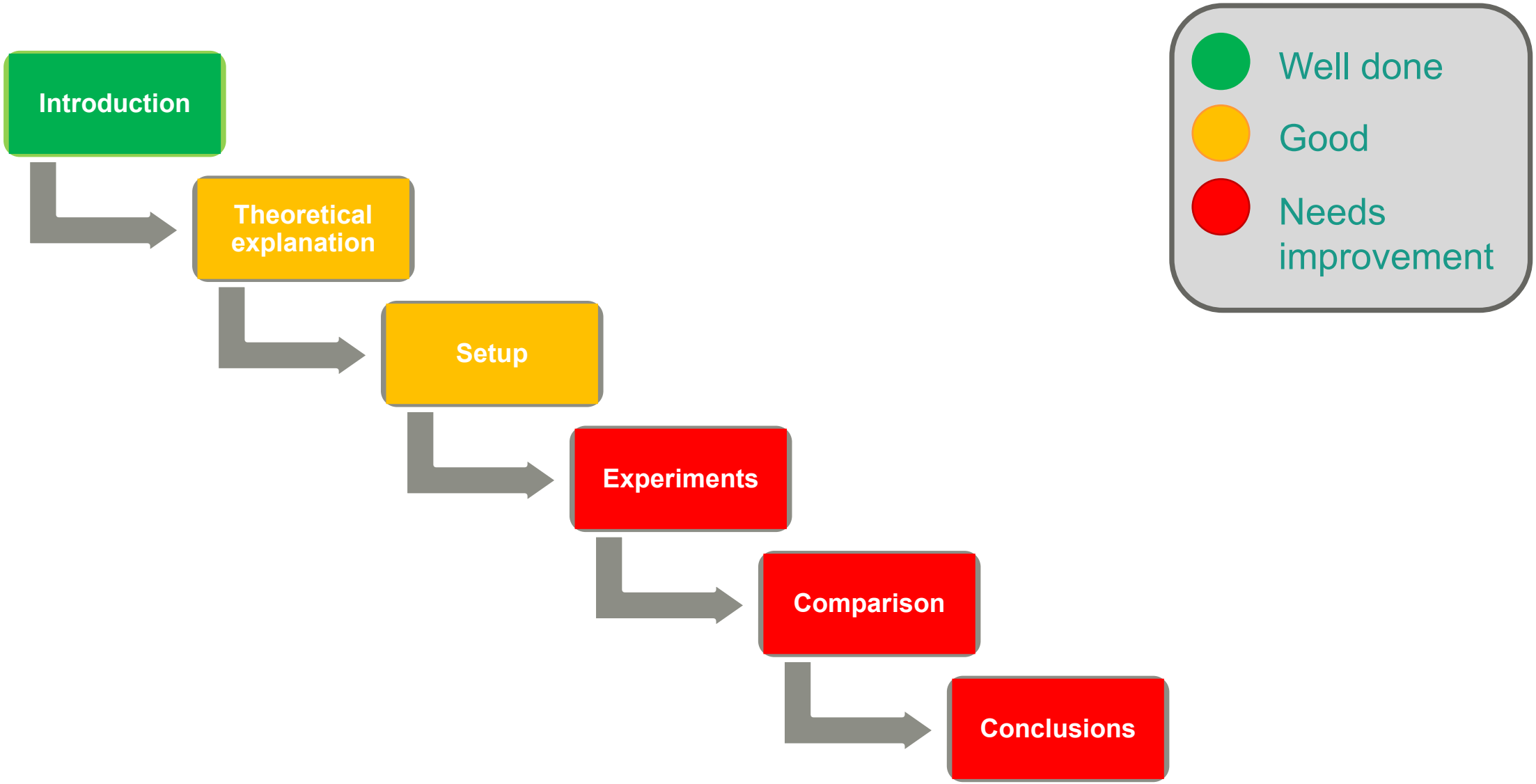
Study the effectiveness of salt to melt ice cubes.

Numerous salts

- **Theoretical information**

- **Experimental Part**
- **Relevant parameters**

Outline of the reporter



Theoretical part

Strong points

- Types of salts are clearly detailed in the tables
- Observed that the most important parameter is the freezing point
- The chemical reaction is present

Weak points

- Chemical composition of salt is missing
- The explanation of anions and cations is missing
- Properties of salt are missing (endothermic/exothermic)

Experimental part

Strong points

- Experimental setup was well presented
- 3 different salts were used
- Environmental parameters were controlled throughout for the whole experiment

Weak points

- Just 3 salts were used, we consider it to be a small number
- Ice cubes physical properties weren't presented (were all the ice cubes the same/ volume and mass were the same for all cubes?)
- Comparison between the experiments is missing

Discussion topics

- Physical properties of the salt cubes (constant volume/mass)
- What is a slush? No explanation in theory
- Exothermic and endothermic salts
- How did you control the temperature exchange between the temperature in the glass and in the room?
- All salts quantities were the same