



04. Popping buoy

OPPOSITION

Greece - Anatolia
Alexandra Therianou

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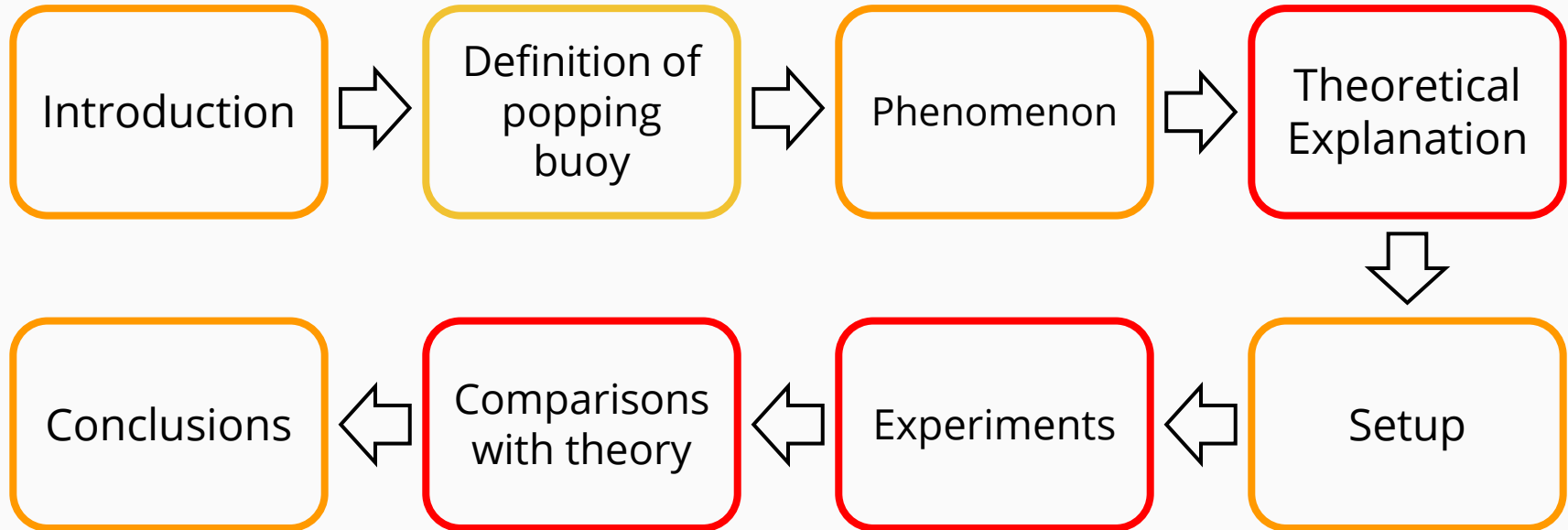


Problem to be investigated

A light ball is held underwater and then released. The ball may sometimes pop above the water surface. Investigate this effect and the role of important parameters.



Outline



 Well Done

 Good

 Work on



Theory

- + Explained the motion of the ball
- + Had some formulas
- + Explained the formulas
- Didn't explain what the drag force is
- Did not include the work energy theorem
- Didn't explain theoretical parameters
- Focused only on two parameters



Experiment

- Unequal distribution of time between theory and experiment
- Did not experiment with balls of densities
- + Changed the release position
 - Did not experiment with different temperatures
 - Did not experiment with different parameters
- Did not perform any experiment with different type of water (sugar water/salt water)
- Did not experiment with less water
- + Had visual aid
- + Had a mechanism to release the ball



Discussion