



17 .Weight REVIEWER

Greece - Anatolia
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Hellenic Physical Society - Saint Petersburg 2020



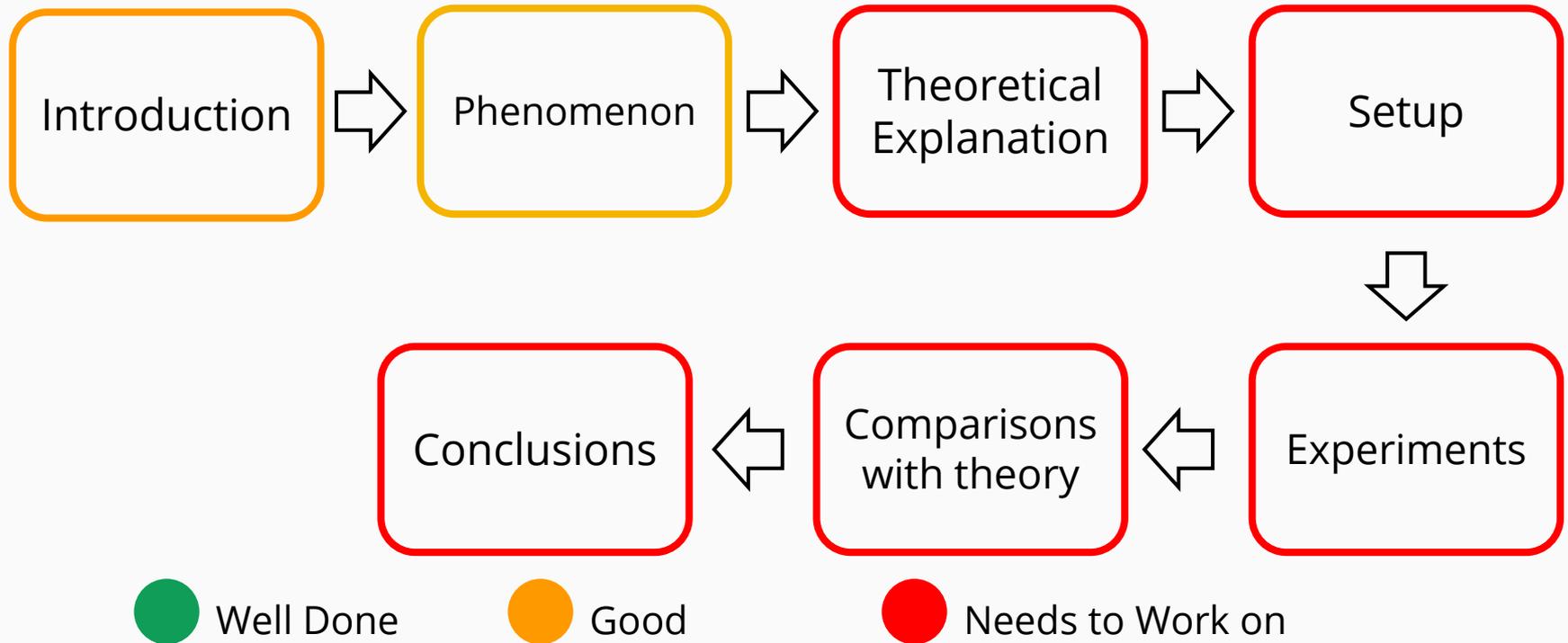
Problem to be investigated

Problem Statement: The weight of a living organism is not constant. Propose an interesting study concerning short-term or long-term variations in the total body mass of a living organism.

Reporters' statement: Fitness trainers and nutritionists (experts in healthy eating) are arguing : it is really necessary to measure it daily to control body weight? Some of them consider this approach unnecessary and even harmful. State well-founded arguments in favor of a particular position and confirm or refute them by experiment.



Outline of the Report





Performance

Reporter

- + Had a lot of information about the general topic
- "Overcrowded" slides with information.
- Slides were chaotic
- Hypothesis was not clearly stated
- Does not mention thoroughly which factors affect change in weight.
- Used only one family and concluded to conclusions from this experiment.
- Gives a lot of attention to the seasons, something that does affect the experiment
- Has many smalls experiments with not many volunteers that do not match between them.
- Did not mention how the experiment led to these conclusions.
- Had only one pregnant women → She can not be led to valid conclusions

Opponent

- + Pointed out some weird phenomena that the Reporter didn't explain
- + Background research on topic
- + Led the discussion
- Didn't point out that temperature is irrelevant (not a major factor)
- Didn't ask if the subjects had any medical conditions



Discussion Topics

Control

What was kept the same?

O: Kids are more active

Effect of weight loss

Why does this change? What causes this?

O: Unclear answer

Data analysis

Calculation of fluctuations
Significance?

Doesn't believe that the data supported the conclusion.



Missed points pointed out

Missed points

- Key parts of the experiment and the theory were unexplored
- Unexplained tables
- Measured only one family
- No hypotheses were evident
- Mention of how the temperature/seasons affect weight

Our suggestions

- Explore more deeply the theory and its' connection with the experiment
- Explain the tables in the presentation in order to understand the experiment deeply.
- Have many volunteers in order to be led to valid conclusions.
- There are always errors in the experiments, so error bars are mandatory
- There should be always be at least one hypothesis for the experiment.

**Thank you for
your attention
End of
presentation**