GROUP 10 : Elisa Melissa Staff Wout

2. PREPARATION

2.1. Material:

- different brands of salad spinners

- phone with phyphox installed

2.2. Method:

- Start the Phyphox program on your phone and delay the start by 15 seconds and set the duration of the experiment to 10 seconds.
- Put the phone in the salad spinner. (you have 5 seconds for this step)
- 5 seconds after you pressed start on the app you start spinning the salad spinner for 5 seconds.
- The start of the measurement is delayed 15 seconds so it will start the measurements after about 5 seconds after you stopped spinning.
- We let the phone measure the angular velocity for 10 seconds.
- Export the data to excel.
- Repeat this experiment 3 times with 3 different salad spinners.

1. ORIENTATION

1.1. **Research question:**

How does the deceleration of the salad spinner affect the angular velocity on the phone?

Sub-questions:

Does the brand of the salad spinner affect the results?

1.2. Hypothesis

- a) The slower it goes, the lower the angular velocity. If it goes slower, there is less force needed to keep it in the circle.
- b) The brand will probably affect the results. Salad spinners of different brands are built different, so they will slow down faster/slower.

	time(s)	angular velocity	acceleration(m/s)
untitled	5,18s	0,67	0,60 m/s
biesse	5,18s	0,095	0,16 m/s
moulinex	5,31s	0,03	0,14 m/s

3. DATA ANALYSIS and DISCUSSION

3.1. Observations and Measurements:

3.2. Discussion:

4. REFLECTION

- 4.1. Conclusion:
- 4.2. **Comparison** of the results of the different countries

4.3. Reflection:54q

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5. REFERENCES