

	TEAM: 10	
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Smartphone- accelerations into physics situations	Italy	Melissa Elisa
EXPERIMENT: centrifugal acceleration in salad spinner		

We put the phone in the salad spinner. Then we measure angular velocity over the time the spinner is slowing down.

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.

2. PREPARATION

2.1. Material:

- different brands of salad spinners
- phone with phyphox installed

2.2. Method:

- First, the phone is put in to the salad spinner with phyphox installed.
- Start spinning the salad spinner for 5 seconds.
- The start of the measurement is delayed 8 seconds and measures for 10 seconds.
- Repeat this experiment 3 times with 3 different salad spinners.

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:

5. REFERENCES