

Investigation: Measuring and characterizing human reaction time
Joint SACS AAPT/NCS AAPT Fall meeting - Workshop November 7, 2020

Investigation Groups

Everyone has been assigned to an investigation group of three or four people. Each group will interact in a breakout session where they will collaborate on the investigation.

Guiding Question

Do two people have the same reaction time?

Experiment

Your task is to design and carry out a procedure to measure a person's reaction time using the online reaction timer at <https://nrich.maths.org/reactiontimer> and compare two measured values accounting for uncertainties in order to answer the guiding question.

Argumentation

Each group will prepare a three-slide PowerPoint (PPT) presentation with their argument. The presentation slides should be:

1. Description of procedure. What did you measure, and how did you measure it?
2. Results. This can include a graph, a table, or a result from your measurements.
3. Argument. Answer the guiding question. Use your results to justify your argument.

Select a presenter from each group. The presenter will give the group's PowerPoint during the argumentation session. The other members of the group will be responsible for contributing to the discussion about the each groups' presentations.