

Heat Capacity prelab preparation

Worksheets, videos and all other lab-related content is located at:

<http://www.physics.brocku.ca/Courses/1P92/lab-manual>

- Read the Theory section for this experiment.
- Use the Internet or some other source to research the following topics. Here are some links:

<https://www.youtube.com/watch?v=yhNHJ7WdT8A>

<https://www.youtube.com/watch?v=67ijwSZ3gnQ>

then in a separate file that you will upload to Turnitin, provide in your own words a description of the following physical principles. Support your description with a couple of examples and consider how the concept might be part of your experiment:

1. Heat transfer by conduction:
2. Heat transfer by convection:
3. Heat transfer by radiation:
4. Specific heat capacity:
5. Newton's law of cooling:
6. The Leidenfrost effect:

- Read through the rest of the lab instructions for this experiment.
- Login to Turnitin and submit your file in your prelab assignment before the "Due" time and date shown. Do not wait until the last minute to submit your report. Turnitin will not accept submissions after the set due date/time. Note that overdue prelab reports are assigned a grade of zero.

Print a copy of this experiment to bring to your scheduled lab session. The data, observations and notes entered on these pages will be needed when you write your lab report. Compile these printouts to create a lab book for the course.

CONGRATULATIONS! YOU ARE NOW READY TO PROCEED WITH THE EXPERIMENT!