# What Affects the Period of a Pendulum?

## Lab 1: Peer Review of Pendulum Setups

In the prelab, you designed and documented a procedure for setting up a pendulum and measuring the length of the string, the amplitude, and the period of oscillation. In this lab, you will review your peers’ setups, provide suggestions on how they might be improved, and receive suggestions about your own setup.

As you work with your peers, it is vital that you be constructive. Notice and point out strengths of your peers’ ideas, and when making suggestions, try to frame them positively (“have you considered this” rather than negatively “I think this is a bad idea”).

Take turns going over each person’s setup, either by sharing their Pre-lab submission or via live video chat. Create a common group document (Google Docs works well for this) and, as a group, answer the questions below about each person’s setup. Each person should then convert the whole group’s document into a pdf and upload it to GradeScope. (So you’ll each upload identical copies of the same group document).

### Peer Review 1

* 1. What is the name of the person whose work you are reviewing?
  2. List some strengths of the way this person set up the experiment.
  3. In this setup, did the person specify where, exactly, the length measurements begin and end? What suggestions, if any, does the group have on this issue?
  4. What is likely the largest source of error in the length measurement in this setup? List any suggestions you have for reducing this source of error.
  5. What is likely the largest source of error in the amplitude (angle) measurement in this setup? List any suggestions you have for reducing this source of error.
  6. What is likely the largest source of error in the period (time) measurement in this setup? List any suggestions you have for reducing this source of error.
  7. List any other suggestions you may have for reducing error or otherwise improving this experiment.

### Peer Review 2

* 1. What is the name of the person whose work you are reviewing?
  2. List some strengths of the way this person set up the experiment.
  3. In this setup, did the person specify where, exactly, the length measurements begin and end? What suggestions, if any, does the group have on this issue?
  4. What is likely the largest source of error in the length measurement in this setup? List any suggestions you have for reducing this source of error.
  5. What is likely the largest source of error in the amplitude (angle) measurement in this setup? List any suggestions you have for reducing this source of error.
  6. What is likely the largest source of error in the period (time) measurement in this setup? List any suggestions you have for reducing this source of error.
  7. List any other suggestions you may have for reducing error or otherwise improving this experiment.

### Peer Review 3 (if needed)

* 1. What is the name of the person whose work you are reviewing?
  2. List some strengths of the way this person set up the experiment.
  3. In this setup, did the person specify where, exactly, the length measurements begin and end? What suggestions, if any, does the group have on this issue?
  4. What is likely the largest source of error in the length measurement in this setup? List any suggestions you have for reducing this source of error.
  5. What is likely the largest source of error in the amplitude (angle) measurement in this setup? List any suggestions you have for reducing this source of error.
  6. What is likely the largest source of error in the period (time) measurement in this setup? List any suggestions you have for reducing this source of error.
  7. List any other suggestions you may have for reducing error or otherwise improving this experiment.