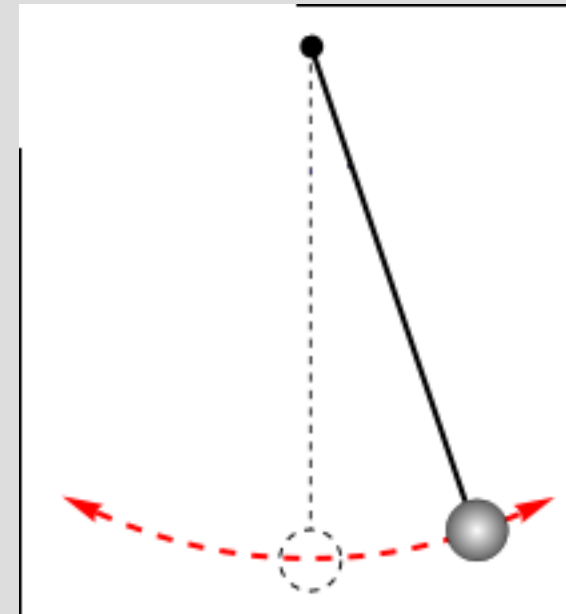
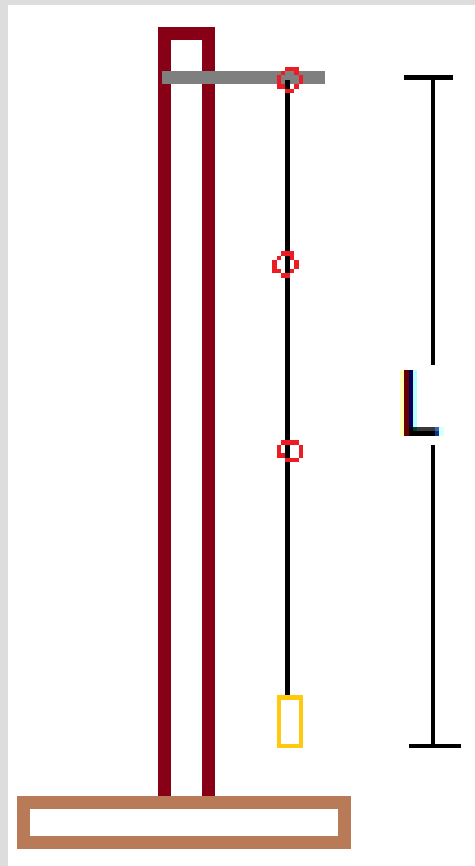


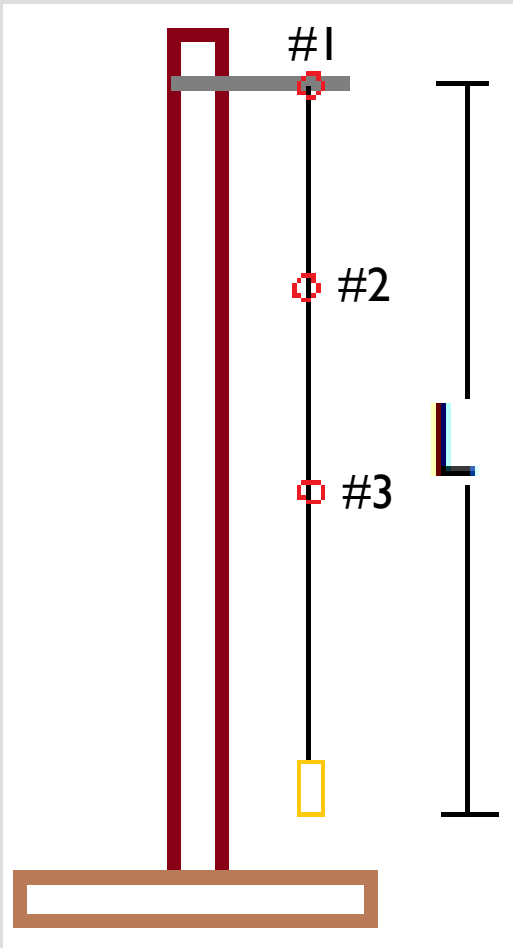
PENDULUM INQUIRY

Fall 2018

PENDULUM SETUP

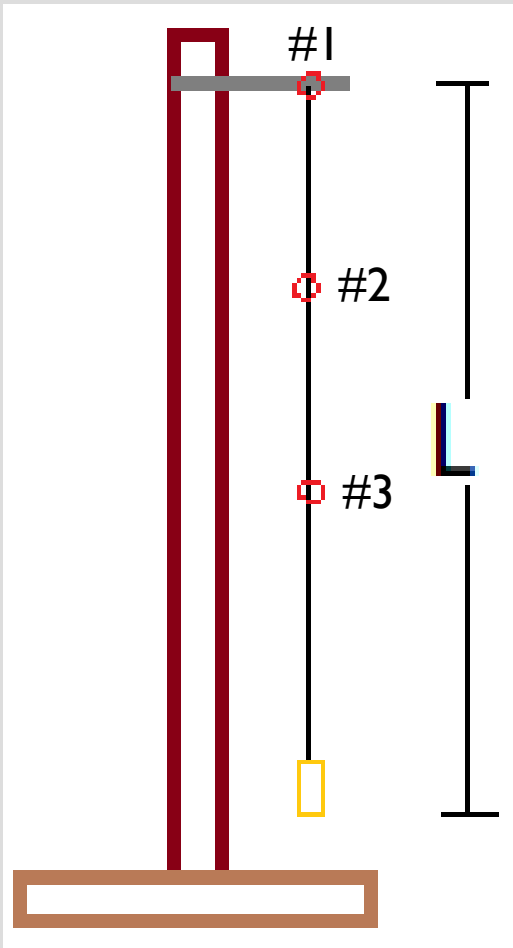


WHAT TO DO



1. Measure and record the length in centimeters.
2. Record the mass of the hanger with all masses.
3. Determine the period and frequency of the pendulum as setup in the diagram. In order to get the best results... time in sets of 10 swings.
4. Remove all of the masses from the hanger. Record the new mass. Note that the length is the same.
5. Determine the period and frequency of the pendulum with the new mass.
6. Now hang the pendulum from loop #2 and repeat #1-5
7. Now hang the pendulum from loop #3 and repeat #1-5

WHAT DOES IT MEAN?



Did the period change as the length changed? Look at the 10ths place...

Did the period change as the mass changed? Look at the 10ths place...

When does a pendulum have the greatest frequency?