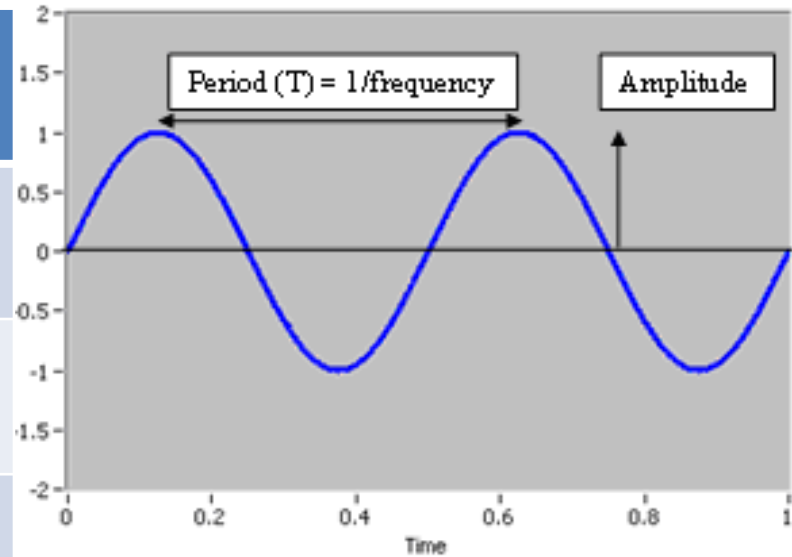


Oscillations

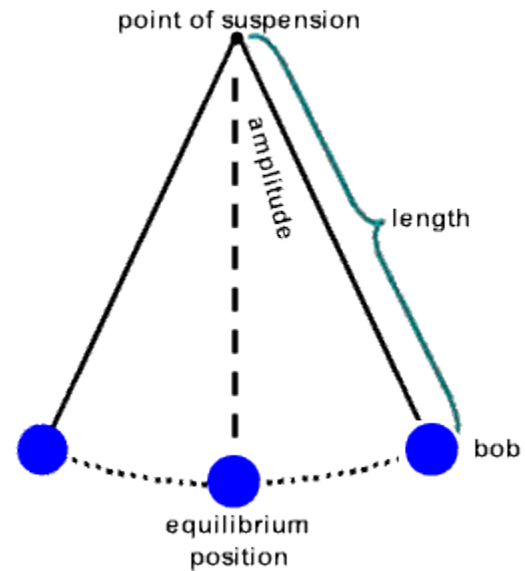
| Parameter | Formula | Units |
|-----------|---------|----------------|
| Period | T | s |
| Frequency | $f=1/T$ | 1/s=Hz (Hertz) |
| Amplitude | A | varies |



Example: Period of small oscillations of a pendulum

$$T = 2\pi \sqrt{\frac{L}{g}}$$

L is length.



Homework

- a) Design and build a pendulum that has a period $T=1\text{s}$.
- b) Measure this period. Make several measurements, find the average and estimate the error in your experiment.
- c) bring your pendulum to SchoolNova