

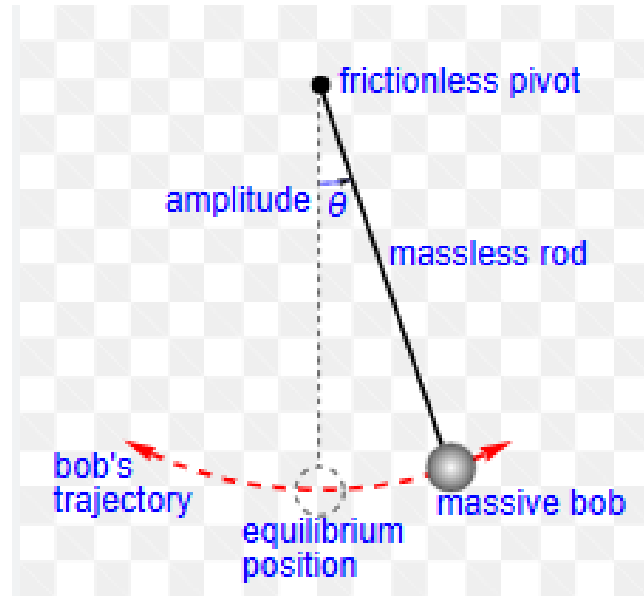
Pendulum Art: Simple Harmonic Motion with a TWIST!

DISCUSSION QUESTION 1:

What is a pendulum?

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DISCUSSION QUESTION 2:

Define period and frequency of a pendulum. Do you remember the relation between them?

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Answer: The period (T) is the time for one complete cycle, while the frequency (f) is the number of cycles per second.

$$T = 1/f$$

DISCUSSION QUESTION 3:

What variables affect the period of a pendulum?

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Answer: Length of the pendulum and acceleration due to gravity.

DISCUSSION QUESTION 4:

What is the formula for period of the pendulum?

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Answer: $T = 2\pi\sqrt{\frac{l}{g}}$