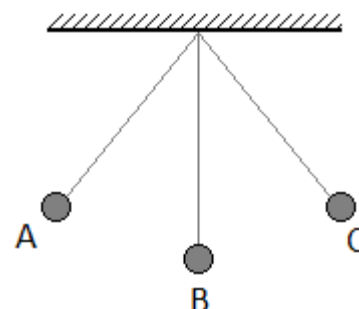


Pendulums

A simple pendulum can be made by



What is meant by 'the time period' of a pendulum? You can use the diagram to help you.

The time period of a pendulum is depends on

The _____ the _____ the

_____ the time period.

Why would you measure the time taken for 10 swings to work out the time period of a pendulum instead of just 1 swing?

$$T = \frac{1}{f}$$

Symbol	Quantity	Units	Unit Symbol
T			
f			

Rearrange the equation to make f the subject

A pendulum makes 10 complete swings every 160 seconds.
Calculate the frequency of the pendulum.

What are the energy transformations occurring as the pendulum travels from:

A to B?

B to C?

A student found that after each swing the pendulum did not return to the same height as it set off from (point A became lower and lower after each swing). Explain why this happens.

What are the common uses of pendulums?
