



LADY ANDAL SCHOOL
'Shenstone Park', 7, Harrington Road, Chetpet, Chennai - 600031

SUBJECT:

NAME:

CLASS:

DATE:

The relationship between pendulums and waves

1. What is a wave?

Ans.

2. What does a pendulum do? How is it similar to a wave?

Ans.

3. What is one wave cycle in a:

a. Transverse wave

Ans.

b. Longitudinal wave

Ans.

c. Pendulum

Ans.

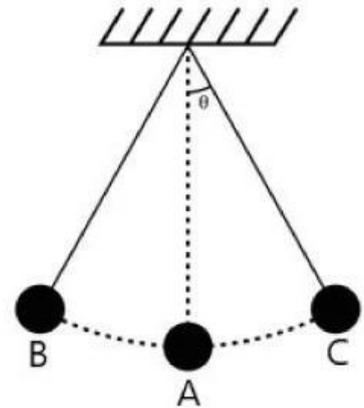
4. What is the difference between t (time) and T (time period)?

Ans.

Time (t)	Time period (T)
1. Total time it takes a wave (or object) to travel a certain distance.	1. The time it takes <u>for one wave cycle</u> to complete.
2. Denoted by t	2. Denoted by T

5. How are frequency and time related?

Ans.



The Pendulum Activity - Observation table

Trial	Total time	Number of cycles	Time Period (T)	Frequency (f)
1	10 s			
2		10 cycles		
3				

 Inquiry Questions:

1. What happens to the time period as the wave becomes faster?

Ans.

2. What pattern do you notice between time period and frequency?

Ans.

3. Can you come up with a formula that connects them?

Ans.