



STEAM.KZ

Laboratory Work №3

"Determining the acceleration of gravity using a mathematical pendulum"

Student's full name

Class _____

School _____

Teacher's full name

Date _____

A decorative graphic consisting of five overlapping, elongated loops or petals arranged in a star-like pattern. The loops are colored light red, light green, light blue, light purple, and light orange. They are semi-transparent and overlap each other, creating a soft, layered effect. The loops are centered around a common point, with each loop extending outwards in a different direction.

[illegible]

No	Length , l, m	Number of oscillations , N	Time of oscillations , t, s	Acceleration of gravity, g, m/s ²	a
1					
2					

No	Length , l, m	Number of oscillations , N	Time of oscillations , t, s	Acceleration of gravity, g, m/s ²	Average acceleration , g _{ave} , m/s ²
1					
2					
3					
4					
5					

Discussion of the results (*discuss the results that you obtained in the experiment and answer the questions*)

1) How to find out the period of a mathematical pendulum?

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.