

Testing the eLabFTW lab notebook

Date: 2025-03-03

Tags:

Category: Project CRYPTO-COOL

Status: Running

Created by: Toto Le sysadmin

Goal

Test the software.

Procedure

Click everywhere and explore everything.

Results

It's really nice, I think I'll adopt it for our lab.

Undefined group

Raw data URL

<https://datalake.example.com/experiments/3921>

Annie, are you okay

This is a checkbox custom input

This is a custom list input

The value is selected from a pre-defined list

Some choice

Linked experiments

- Test the grouped extra fields

- An example experiment

- Transfection of p103Δ12-22 into RPE-1 Actin-RFP

Linked items

- Ut autem error amet voluptatem temporibus labore ipsum.

- Magni suscipit quia blanditiis at ea excepturi.

Comment

On Toto Le sysadmin wrote:

Well, it's always reassuring to know that scientists are spending their time and our tax dollars discovering what the rest of us already learned in third-grade science class.



Unique eLabID: 20240404-9dd8fa52c0bb0795978f09429834bc3dfd63debe
Link: <https://localhost:444/experiments.php?mode=view&id=264>

Testing relationship between acceleration and gravity

Date: 2025-01-02

Tags: `has-mathjax` `physics`

Category: Project CRYPTO-COOL

Status: Success

Created by: Toto Le sysadmin

Determination of Acceleration Due to Gravity

The acceleration due to gravity is a fundamental constant that determines the gravitational force between two objects. In this experiment, we aimed to determine the value of acceleration due to gravity using a simple pendulum.

Experimental Design

We suspended a metal ball from a string and measured the time taken for one complete oscillation of the pendulum. We repeated this measurement for different lengths of the pendulum and recorded the corresponding times. Using the formula $T = 2\pi\sqrt{\frac{L}{g}}$, where T is the period of the pendulum, L is the length of the pendulum, and g is the acceleration due to gravity, we calculated the value of g . The period T can also be expressed in terms of the frequency f using the equation $T = \frac{1}{f}$.

Results

The results showed that the value of acceleration due to gravity was 9.81 m/s^2 , which is consistent with the accepted value. We also found that the period of the pendulum increased with increasing length, as predicted by the formula $T = 2\pi\sqrt{\frac{L}{g}}$. The relationship between the length and period of the pendulum can be expressed as $T^2 = \frac{4\pi^2}{g}L$, which is a linear relationship with a slope of $\frac{4\pi^2}{g}$.



Unique eLabID: 20240404-8837a7706c9719b1d5c6bb065be64f53406d4665
Link: <https://localhost:444/experiments.php?mode=view&id=262>

フルーツフライの食性に関する研究

Date: 2025-01-02

Tags: CJK ショウジョウバエ

Category: Project CRYPTO-COOL

Status: Success

Created by: Toto Le sysadmin

背景：フルーツフライは、果物の成熟過程に大きな影響を与えます。そのため、フルーツフライの食性について研究することは、果物産業にとって重要な意義を持ちます。

目的：この研究の目的は、フルーツフライの好んで食べる果物の種類を調べることです。

方法：まず、フルーツフライを捕獲し、実験室で飼育します。次に、果物を複数用意し、フルーツフライが好んで食べる果物を調べます。果物は、リンゴ、バナナ、オレンジ、キウイフルーツ、グレープフルーツ、パイナップル、マンゴーの7種類を用意します。各果物を1つずつケージの中に入れ、フルーツフライが果物を食べたかどうかを確認します。果物は毎日交換し、同じ果物が連続して入れられないようにします。また、フルーツフライが果物を食べる時間帯も調べます。

結果：実験の結果、フルーツフライが好んで食べる果物は、バナナ、マンゴー、パイナップルであることがわかりました。また、フルーツフライが果物を食べる時間帯は、午前中が多いことがわかりました。

結論：フルーツフライは、バナナ、マンゴー、パイナップルを好んで食べることが明らかになりました。この結果は、果物生産業にとって重要な情報となります。



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