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Millikan Oil Drop
Lab Activity
Answers

Millikan Oil

Drop Lab

Activity

Answers | ca37

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Millikan Oil Drop
Lab Activity

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Toronto District School

Board Virtual High

School Course Name:

SPH4U1 - D2 Mr. Nailer

January 20, 2021.

Abstract The magnitude

of a charged electron

using a variety of oil

drop experiments was

studied by physicist

Robert Millikan

experimentally.

Throughout this

process, the charged oil

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droplet was introduced among two parallel plates that were opposite charged, and also the magnitude of the electric field and electric force of the droplet were regulated.

[Millikan Oil Drop Experiment](#)

The oil drop experiment was performed in 1909 by Robert A. Millikan

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and Harvey Fletcher to measure the elementary electric charge (it means the electron's charge). This experiment took place in the Ryerson Physical Laboratory, which is present at the University of Chicago. Also, this experiment has proved to be very crucial in physics.

[Millikan's Oil Drop](#)

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[Experiment |
Introduction to
Chemistry](#)

Millikan's original experiment or any modified version, such as the following, is called the oil-drop experiment. A closed chamber with transparent sides is fitted with two parallel metal plates, which acquire a positive or

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negative charge when an electric current is applied. At the start of the experiment, an atomizer sprays a fine mist of oil droplets into the upper portion of the chamber.

[and Typical PASCO scientific Model AP-8210](#)

Before Class
Preparation: BYOD

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Laptop or use

chromebook provided

Video: Millikan oil drop
experiment In Class

Activity: Use simulations
to investigate Millikan's
oil drop experiment in
Google Classroom

oPhysics After Class

Work: Videos Millikan
oil drop explained

Crashcourse: Electric
Fields

[Millikan Oil Drop Lab -](#)

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[The Physics Aviary](#)
Answers

Millikan's setup was based on the equilibrium of forces of small charged particles (oil bubbles in this case) in an electric field (Fig. 1.) ++ +++++ +++++
++++-----+ Fig. 1: Millikan Setup If the experiment is performed under normal conditions (e.g. in air), four major forces act on the particle.

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Coulomb Force and buoyancy are pushing the

[Millikan Oil Drop Lab Activity Answers - rossanasaavedra.net](http://rossanasaavedra.net)

The Millikan Oil Drop Activity, Student Handout When Millikan performed his Oil Drop Experiment, he determined the charge of a single electron.

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Millikan found that the negative charges on falling oil droplets were repeating multiples of the same negative charge.

[Millikan Oil Drop
Experiment - Physics &
Astronomy](#)

The Millikan Oil Drop
Experiment 2/1/2021
Student Name:
REPORT Section

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Number: Instructions 1)

Follow all of the lab activity steps given in the Lab Procedure. 2)

Results 1) Write out your answer in a clear and well supported paragraph. erase this and type in your answer

2) Write out your answer in a clear and well supported paragraph. erase ...

[The Millikan Oil Drop](#)

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[Chemistry Experiment](#)
Answers

Click on 'START' button. Click on Combo box to choose the oil. Double click 'START' button of stop watch and notice the time taken t_1 by a drop, to travel distance l_1 between any two points. Click 'Voltage On' to suspend the same oil drop in air, which is the balancing voltage V .

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[The Millikan Experiment](#)
[32](#) Answers

The Oil Drop Experiment was performed by the American physicist Robert A Millikan in 1909 to measure the electric charge carried by an electron. Their original experiment, or any modifications thereof to reach the same goal, are termed

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as oil drop experiments,
in general. Oil Drop
Experiment.

[Classroom Activities:
Millikan Oil Drop
Experiment ...](#)

The Millikan Oil-Drop experiment is an important experiment in the history of physics. The American physicist Robert A. Millikan used it to produce an

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Answers
accurate measurement of the charge on the electron. In Millikan's apparatus a low-level radioactive source, an alpha emitter, was used to change the amount of charge on the oil droplets.

[The Millikan Oil-Drop Experiment](#)

The Millikan oil-drop experiment was the first

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Answers
compelling experiment that measured the charge of an electron. It was first performed in a 1909 by Robert A. Millikan. The force on an electric charge in an electric field is equal to the product of the charge with the electric field.

[Measuring the electric charge: Millikan's experiment](#)

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Answers
Discussion: This activity is analogous to the Millikan Oil drop experiment. The Millikan Experiment and the Standard Model both require that students recognize that charge and matter are observed in discrete units. Purpose: To find the smallest common mass in a set of envelopes. Procedure: You will be given a

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number of envelopes.
Answers

[Doing it differently:
attempts to improve
Millikan's oil ...](#)

Millikan Oil Drop
Experiment [Figure1]
This is the original
equipment used by
Robert Millikan and
Harvey Fletcher in 1909
at the Univeristy of
Chicago to measure the
electric charge on a

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Answers

single electron. With incredible perseverance, they were able to determine the charge to within 1% of the currently accepted value.

[THE MILLIKAN OIL-DROP EXPERIMENT](#)

Millikan Oil Drop Data Analysis: The experiment consists of raising a tiny, electrical

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ly charged oil drop in an electric field and then lowering it again. To raise it you apply a constant electric field on the drop that forces it upward. To lower the drop you can either turn off the electric field and just let it fall or you can reverse the

[Millikan's oil drop experiment - Magnus Karlsson](#)

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The oil drop experiment was performed by Robert A. Millikan and Harvey Fletcher in 1909 to measure the elementary electric charge. The experiment took place in the Ryerson Physical Laboratory at the University of Chicago. Millikan received the Nobel Prize in Physics in 1923. The experiment entailed observing tiny

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electrically charged droplets of oil located between two parallel metal surfaces, forming the plates of a capacitor. The plates were oriented horizontally, with one plate above the other

[Millikan Oil Drop Lab Activity Answers](#)

This complete Millikan oil drop experiment kit

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provides the convenience of a custom USB video recorder /camera to provide ultimate versatility and convenience to instructors. You can repeat an experiment performed by Robert Millikan in 1909 to determine the size of the charge on an electron. Millikan received the Nobel

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Prize for his work.
Answers

[In Millikan'S Oil Drop Experiment, What is the Terminal ...](#)

1 Oil Drop Experiment 2
The Apparatus 3 The
kaka went too kaksa 4
The Result -An
experiment performed
by Robert Millikan in
1909 determined the
size of the charge on an
electron. He also

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determined that there was a smallest 'unit' charge, or that charge is 'quantized'. R.A.

Millikan performed his famous experiment about 1910. It was fundamental in the process of describing the structure of the ...

[Millikan's Oil Drop Experiment | Notes, Videos, QA and ...](#)

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Oil-Drop-改 This simulation is a simplified version of an experiment done by Robert Milliken in the early 1900s. Hoping to learn more about charge, Milliken sprayed slightly ionized oil droplets into an electric field and made observations of the droplets.

[The Millikan experiment](#)

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Lab Activity
[| IOPSpark](#)
Answers

Millikan oil drop experiment: Basically, what Millikan did was to first create this apparatus shown above. Then, he sprayed a mist of oil droplets into the top part with an atomizer.

[Solved: Millikan's Oil Drop Experiment Could Find: Charge ...](#)

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Answers
Millikan repeated the experiment no. of times, each time varying the strength of X-rays ionizing the air. As a result no. of electrons attaching to the oil drop varied. Then he obtained various values for q , and is found to be a multiple of $1.6 \times 10^{-19} \text{ C}$.

[JuniorPhysicsLaboratoryExperiment#2 Millikan](#)

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Lab Activity
[Oil Drop ...](#)
Answers

Millikan Oil Drop
Apparatus Introduction
2 012-13093C where m
is the mass and g is the
acceleration due to
gravity. To eliminate m
from equation (3), the
expression for the
volume of a sphere and
the density of the oil are
used: where a is the
radius of the droplet,
and is the density of the

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oil. Substituting equation (4) into equation (3) yields:

[Millikan Oil Drop Experiment - Course Websites](#)

The Millikan Oil Drop Experiment.

OVERVIEW At the turn of the century, Robert Millikan made an important refinement upon a method to

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Answers
measure the charge of a single electron. The method is simple in concept but challenging in practice. Oil droplets are introduced into a chamber between two parallel conducting plates.

[The Millikan oil drop experiment - Book chapter - IOPscience](#)

INSTRUCTIONAL

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OBJECTIVES (Stated):
Students will be able to describe the principles involved in the Millikan Oil Drop Experiment, and given the necessary experimental data, students will determine the charge on a single electron.

INSTRUCTIONAL PREREQUISITES:
(Inferred): Instruction in concepts underlying the measurement of an

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Lab Activity
electron's charge.
Answers

["Modeling the Millikan Oil Drop Experiment" - The Science ...](#)

Enter the Millikan Oil Drop Experiment. Hailed as one of the most beautiful scientific experiments of all time, 8 8. George Johnson, "Here they are, science's 10 Most Beautiful Experiments," The New

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Answers
York Times (Sept.
2002). the oil drop
experiment is graceful,
simple, and ingenious.

.

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