

Writing a Lab Report

Your lab report will follow the format used in most science journals to describe and summarize research results for other scientists. **All lab reports must be typed, double-spaced, with 1" margins all around, and using 12-point, Times New Roman or similar font.** Do NOT include a title page—it wastes paper.

Layout of a Lab Report (four sections)

1. The *Introduction* provides background information, describes the purpose(s) of the experiment and states the hypotheses being tested.
2. The *Materials and Methods* section provides a list of materials used and a description of how the experiment was performed. Another student should be able to take this section and replicate your experiment from your description. This section should resemble a recipe in a cookbook. Variables should be identified (manipulated, responding and controlled).
3. The *Data and Results* section will contain tables of numbers summarizing your results. Be sure to include units (cm, g, s, etc.), otherwise they're just numbers and not data. A practical way is to include units in the column title, e.g., *Period (s)* (A period is the measurement of a length of time in an experiment). This tells me all numbers in the column are measured in seconds. In your lab report, data tables must be done on *Word, Excel* or similar software. Use explanatory paragraphs as needed. This section also includes a graph of your data. Graphs will be done using *Excel* or a similar spreadsheet program.
4. The *Discussion and Conclusions* section talks about your data and answers the simple question, "Did our data support the hypothesis?" From this, you decide "Do I reject my hypothesis or not reject it?" After you discuss decisions about the hypothesis, a discussion of error is expected. Why? Because no experiment you do this year will produce perfect results and you need to think about and intelligently discuss *why*.

In spite of frequent use of the term "human error," this is not a legitimate science concept. All error will be identified and described as either **systematic error** or **random error**. Systematic error usually occurs as the result of malfunctioning or miscalibrated equipment. For example, if your meter stick is worn down on the end and starts at the 2 mm mark, all lengths measured with it will be 2 mm longer than they really are. Systematic error tends to be all in the same direction and be the same amount off from the actual value. Random error is scattered above and below the actual value.

Elements of a Good Graph

1. A sensibly short and descriptive title. Tell your reader what the graph is showing.
2. Both axes need to be labeled (titled). Graph **dependent** data on the y-axis, and **independent** data on the x-axis. For example, in the pendulum lab, you will graph period and string length. The period depends on string length so "Period" is the title of the y-axis (dependent). "String length" is a good title for the x-axis (independent).
3. Both axes need to indicate units being graphed. For period the units are seconds (s), for string length, cm.
4. Data should occupy the entire space of the graph and axes scaled sensibly to fit the data. *Excel* will do this for you automatically.
5. When drawing a graph, plot individual data points, but do NOT connect the dots. Instead, draw a smooth line through them. Typically about half the data points will lie above and half below the line. The line is called a **trendline** or **best-fit line**. When using *Excel* select the "XY Scatter plot" and *Excel* will add the trend line.
6. Include a **legend** if multiple lines are included on a single graph. This tells the reader what each line represents.

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Sticky Sneakers Lab Answers Key

Sticky Sneakers Problem How does the amount of friction between a sneaker and a surface compare for different types of sneakers? Skills Focus controlling variables, interpreting data Materials three or more different types of sneakers 2 spring scales, 5 N and 20 N, or force sensors mass set(s) 3 large paper clips tape balance Procedure 1. Sneakers are designed to deal with various friction ...

Consumer Lab Sticky Sneakers - Mr. Zrinski's Physical Science

Sticky Sneakers Unit IV Force & Motion Name: ____ Date: ____ Per: ____ The appropriate sneaker for an activity should have a specific type of tread to grip the floor or the ground. In this lab you will test different sneakers by measuring the amount of friction between the sneakers and a table. Problem: How does the amount of friction between a sneaker and a surface compare for different ...

Sticky Sneakers - SawyerScience

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Sticky Sneakers Lab Answers Key - alexander.sdmidov.me

Sticky Sneakers Lab Name ____ 8th Grade PSI Score ____ / 27 points Problem: Friction is a force that acts in the opposite direction to motion. How does the amount of friction between a shoe and a surface compare for different shoes? Which shoes would be best for playing basketball? Which would be best for bowling? Materials: -Three or more different types of shoes -spring scale -paper clips ...

Sticky Sneakers Lab Name 8 Grade PSI Score / 27 points ...

we had a lab in physics class. it was called a sticky-shoe lab. these are the questions i need to answer but i am not sure if my answer is correct. The Attempt at a Solution 1. the amount of friction would increase as the force of gravity increases, because greater force of gravity means more mass . (but i am not sure how to explain that friction will increase also) 2. less force was required ...

Sticky-shoe lab newtons Laws | Physics Forums

The lab was called "Sticky Sneakers". The question for this lab was "How does the

amount of friction between a sneaker and a surface compare for different types of sneakers? We measured three different kinds of friction by pulling shoes with spring scales until the shoes start moving. We also did other things like our advertisements for our shoes to add to this final product. We hope you ...

Sticky Sneakers

Sticky Sneakers This is the coolest blog that you're ever going to see, so it is an honor to see our science blog. see ya -Connor_Ken_Michael- Oh and be sure to try our poll to see which shoe is better....plz . Wednesday, April 30, 2008. PROBLEM: Friction is a force that acts in the opposite direction to motion. How does the amount of friction between athletic shoes and a surface compare for ...

Sticky Sneakers - Blogger

For this lab, please attach in the following order: lab handout (with data filled in), answers to questions, graph. Helpful notes! Three frames is 0.1 s. The lines are 10 cm apart. There are 100 cm in a meter. The formula for momentum is $p = mv$. Think about the law of conservation of momentum! To get into the simulation:

Sticky Collisions - ortmanlink.weebly.com

teAcHer ANSWer Key StICkY FINGERs Three weeks ago a local bakery was robbed at gunpoint. The thief wore a mask, so even when the police found a suspect the bakery owner couldn't make a positive ID. However, as the CSI processing the scene, you collected several fingerprints from various parts of the bakery. The police have identified a suspect, but he says he's never been to that bakery ...

teAcHer NoteS - Rice University

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Sticky Tape Lab Apparatus For each 2 person group: One roll of transparent tape (recommended: 3M Magic tape, may be shared between 2 groups) Two strips of paper, 15 cm x 1.5 cm Two strips of aluminum foil, 15 cm x 1.5 cm Plastic ruler, glass rod 10 cm x 10 cm pieces of wool or fur, cloth Pre-lab discussion • Remind the students that there was something about water than caused the constituent ...

1 Sticky Tape - University of Kentucky

Pre-Lab description of the Sticky Tape Lab

Sticky Tape Lab - YouTube

SE2. Sticky Tape Experiments Lab Included, labeled and organized all parts of the lab report. Data section includes the provided table; observations are reasonably accurate and the conclusions regarding the charge are consistent with the observations. Conclusion/Discussion provides a complete ranking of the materials studied.

Sticky Tape Experiments Lab - Physics

Learn about molecular polarity and how polarity gives rise to intermolecular forces. Measure four macroscopic properties of liquids (cohesion, adhesion, surface tension, and capillary rise). Compare these properties for different liquids and relate them to whether the substances are polar or nonpolar.

Sticky Molecules Gizmo : ExploreLearning

The lab was more successful than I expected (I've done the lab before), and I even managed to add a somewhat more free-form element to it, that worked out well. The

Sticky Tape Lab | ScienceBlogs ...

The Sticky Tape Lab | ScienceBlogs

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Once your dichotomous key is complete, test it with each item and revise your key, if necessary. 8. Exchange keys and items with a classmate. Use your classmate's key to identify his or her items. Then, suggest ways to improve that key. Analyze and Conclude 1. Classifying In Part A, identify leaves I through VII. 2.

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