

# Lab Experiment - Measuring 'g'

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Only the first part happens in the labs.

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This has a *qualitative* answer.

We'll want to *discuss* how this fits with our expectations.

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This has a *quantitative* answer.

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This has a *qualitative* answer.

We'll want to *discuss* how this fits with our expectations.

There may be others that will come up along the way.

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Since the physics and equipment are familiar, only the *process* is new.

# Equipment

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- Instrument for measuring time

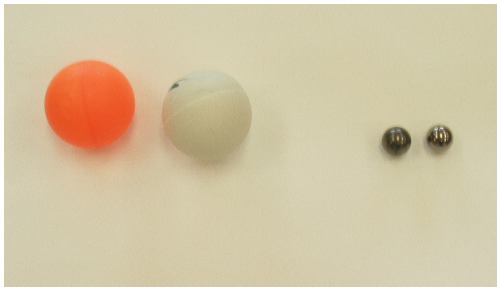
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There are a few other pieces as well.



## Falling bodies



The target



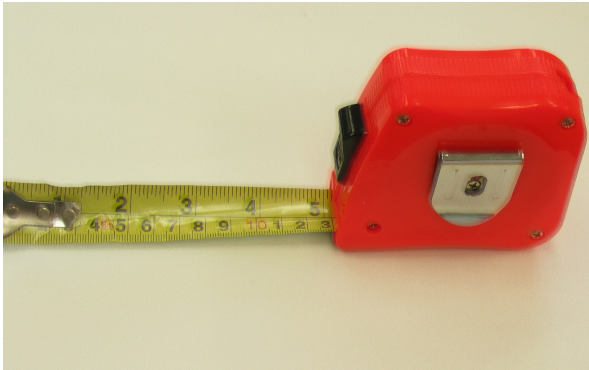
The target (falling object's eye view)



Time measurement (one option)



Time measurement (another option)



## Height measurement



The “laboratory”

# Method

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Often technique matters *a lot*.

# What are the four techniques?

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Either person can be in either role.

This makes four possibilities of technique.

# How do you determine the “best” technique?

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- Precision

# How do you determine the “best” technique?

- Precision
- Accuracy

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These may not both indicate the same technique as “best”.

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**Before your next lab, you'll only have pre-lab requirements to complete.**

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- **If so, you'll just need to hand things in during your lab period**