

## 1.1: Background Material

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### Text References

- [waves on strings](#)
- [wave reflection](#)

### A Reminder

This activity requires accurate measurement of time intervals of a phenomenon that is difficult to track. As we have done in Physics 9A labs, we can mitigate the tracking problem by using video capture of the action, with a timer included in the frame, followed by stop-motion study of what has been recorded.

But even with this, there is something more we can do, since what is important is the *percentage* uncertainty. To review what we have determined previously about this, see the "Improving Time Measurements" section of [Background Material for Physics 9A, Lab 3](#). As for determining uncertainties in these time measurements, the last sentence of the [Background Material for Physics 9A, Lab 1](#) spells it out.

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