

Collecting Data on Pitching Speeds

In order to measure your pitching speed, you'll need:

- A timer (accurate to 1/100th of a second)
- A mitt (or a slow partner or an iron hand)
- A baseball (or other ball in case of bad weather).



In this activity, you should use a pre-measured series of distances. You should work with a partner and each of you should pitch a baseball three times at a comfortable distance. The other partner can time the flight of the baseball. (To save time, you may co-operate with another group of students.) Some of you pros might want to try pitching from a full 20 metre distance, which is longer than the standard 18.4 metre distance used in the major leagues. *Please warm up a bit. Don't kill your arm!*

Activity 1-2: Pitching Speed Data (groups of 3)

(a) Fill in the data table in the space below for yourself and two *other* classmates and calculate the average time and speed for each person to two decimal places.

(b) Calculate the average speed in kilometres per hour you measured for your own pitch. Show all the steps in your calculation. How good was your prediction?!

Name	Distance (m)	t_1 (s)	t_2 (s)	t_2 (s)	Average t (s)	Average Speed (m/s)