

Student Companion Worksheet - Dolly Diving

Software

Kinovea

- Import your videos onto the laptop.
- Launch Kinovea and open the first video.
- Use the line tool to indicate a distance you know the length of. Right click on the line and calibrate measure to known distance.
- Use the line tool to measure the maximum vertical distance of each jump.

Excel

- Open a spreadsheet and create a table with columns relating to the number of bands and the distance jumped.
- Discuss the best type of graph to represent the data collected.
- Insert an appropriate graph, making sure that the axes are correctly labelled.
- Can you use the spreadsheet to display a “line of best fit”?
- Can you generate/display the equation of this line?
- Using the data you have gathered, how many rubber bands would it take to give the doll an exhilarating, but safe jump from a first floor window?
- Test your hypothesis!