

# TUTORIAL 6A

**Quintic<sup>®</sup>**

*# 1 for Sports Analysis*























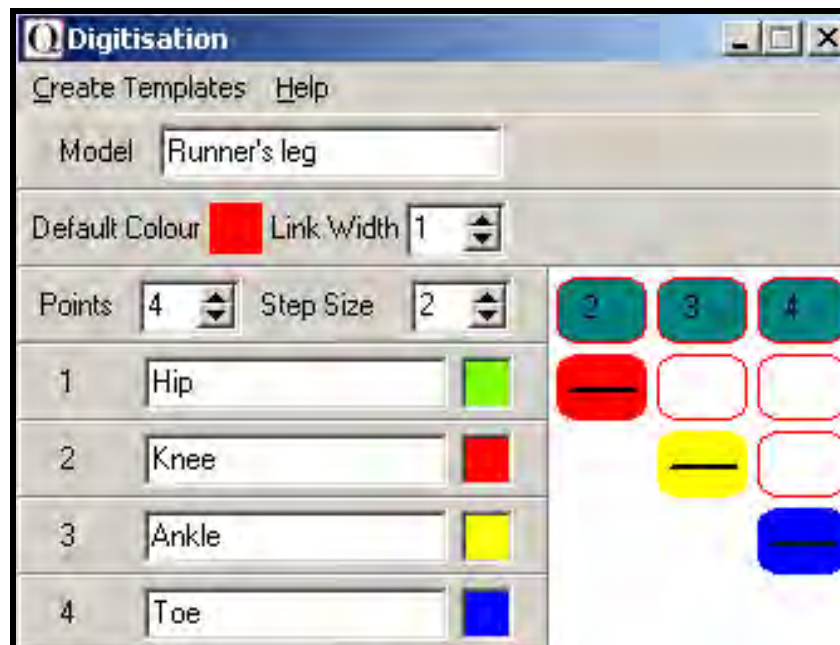
- 6) Imagine you have digitised video clips of two different swimmers performing the same stroke. Explain why it is important to calibrate both clips in order to compare the speeds of the two swimmers.  
*Both clips must be calibrated as the swimmers will have different limb lengths, the swimmers may have different techniques as well.*

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Open the video 'sprint start' from the athletics folder.

- 7) You are going to digitise one complete cycle of the runner's left leg.
- (i) At what frame numbers are you going to start and end your digitisation? Justify your answer.  
*You would use frames 50-62 to digitise the sprinters movement. This is from the set position (where he firsts start's to move) to frame 62 left toe contact with the floor*
- (ii) Create this template for your digitisation.



- (iii) Why can't you continue to digitise after frame 65?  
*You cannot continue to digitise after frame 65 as after this point the camera starts to pan sideways. Therefore no data (velocities, accelerations) would be able to be generated.*

