

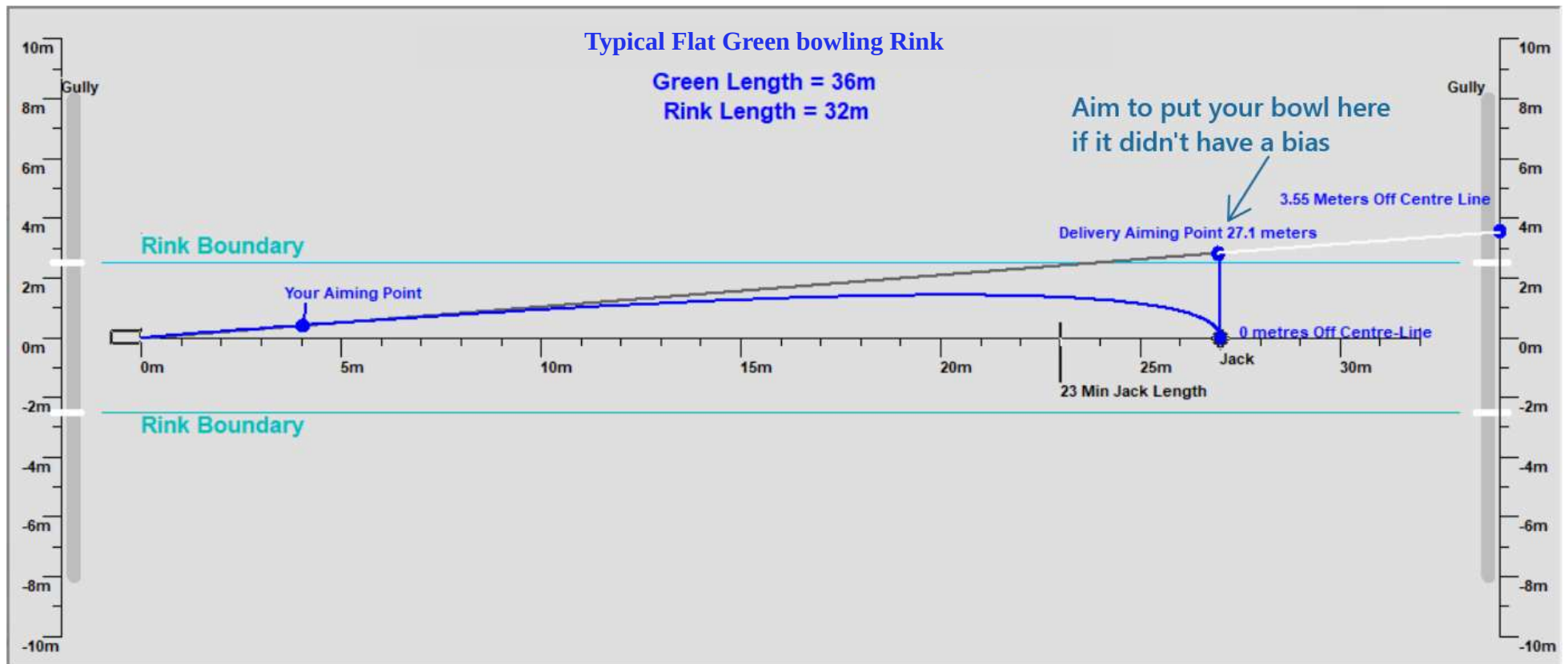
# AIMING HELP FOR NEW BOWLERS

Jonathan Barr Ledbury Bowls Club

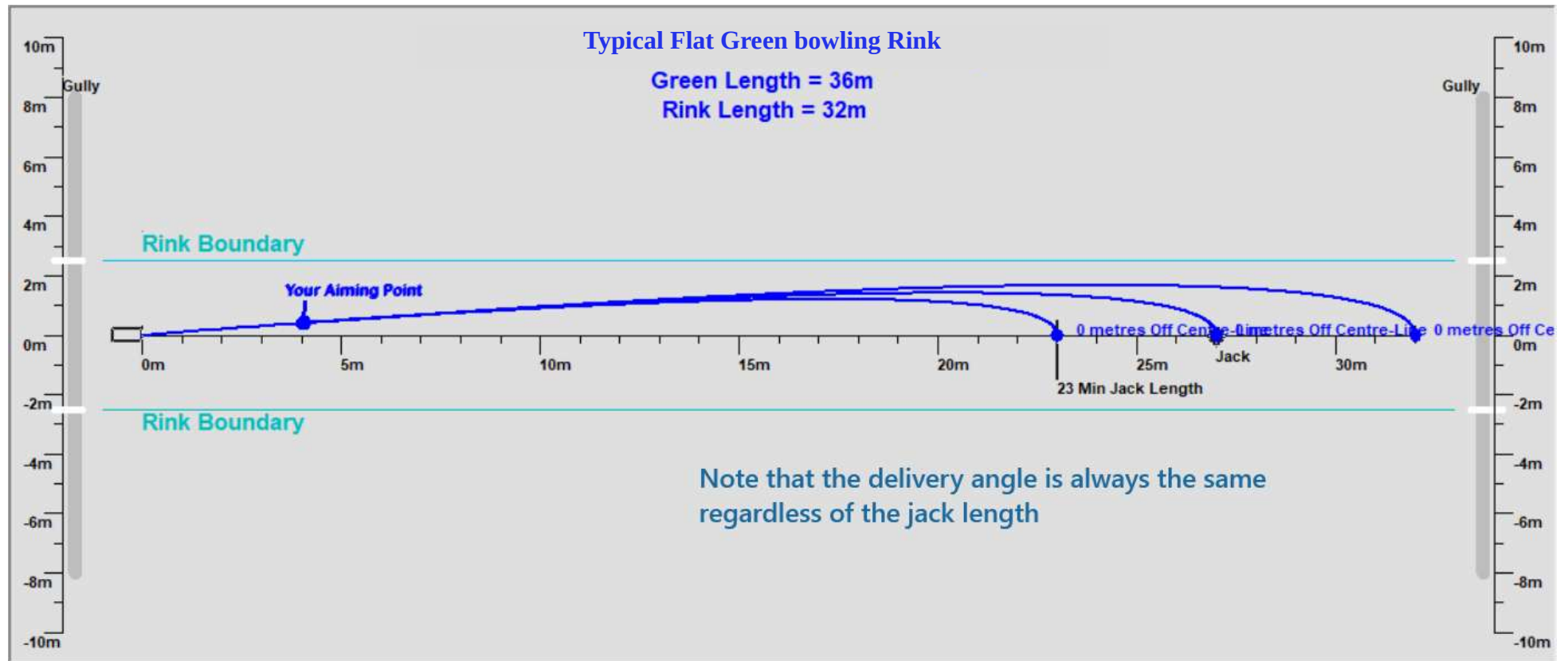
The most important point in becoming competent in flat green bowls is to be able to deliver a bowl **consistently** and **accurately** over a given point about 4 metres in front of you. You can practice this by bowling into the same point of a cushion in front of a chair in your living room. Judging the weight required to get to the jack will only come with actual practice on the green.

A bowl is similar to an out of balance gyroscope in that at speed it will travel in a straight line, but as it slows down it will precess towards the heavy (out of balance) side, performing a parabolic curve. Therefore you must aim the bowl to a point that is off the centreline to the jack. How far off the centreline will depend on the rink speed and the type of bowl you are using. **But the angle off the centreline is always the same whether you are delivering to a short jack or a long jack (see second picture).**

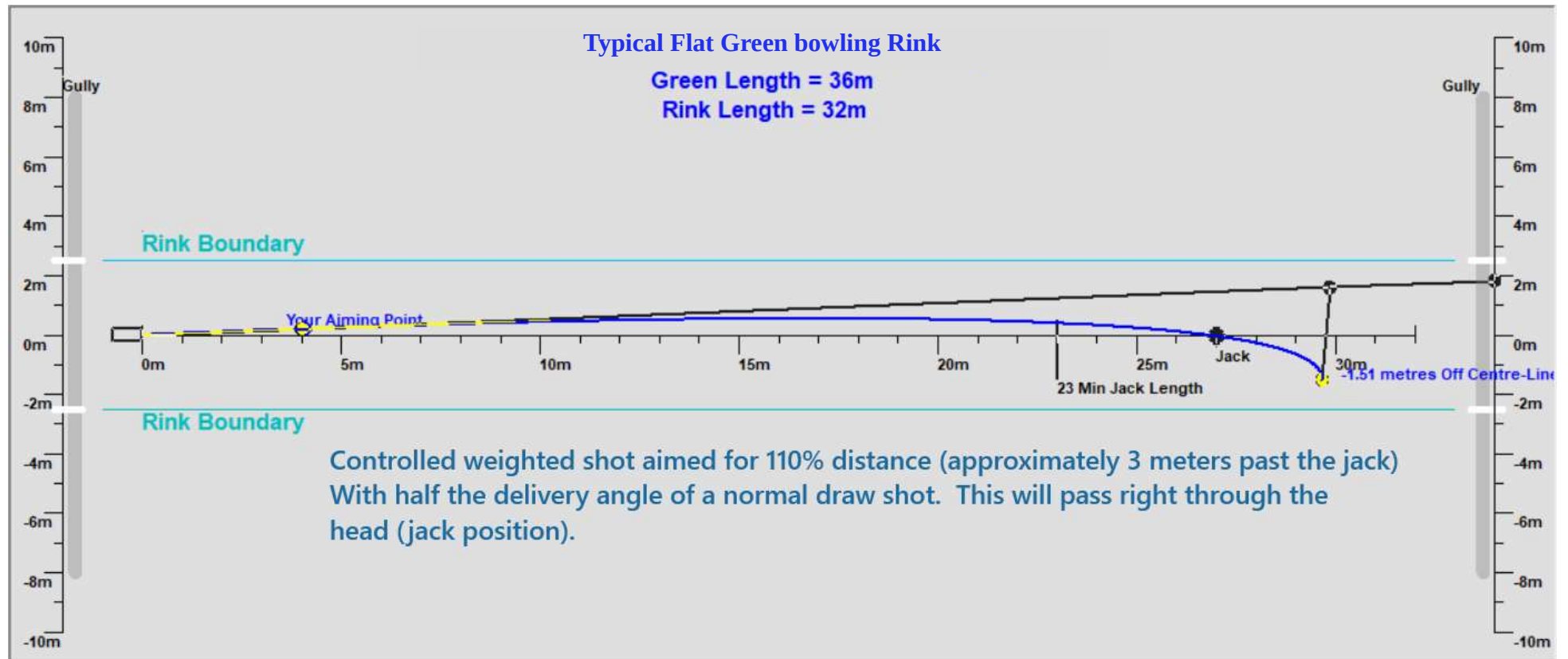
The first picture below shows a typical draw shot using a Taylor Ace bowl on a slow green.



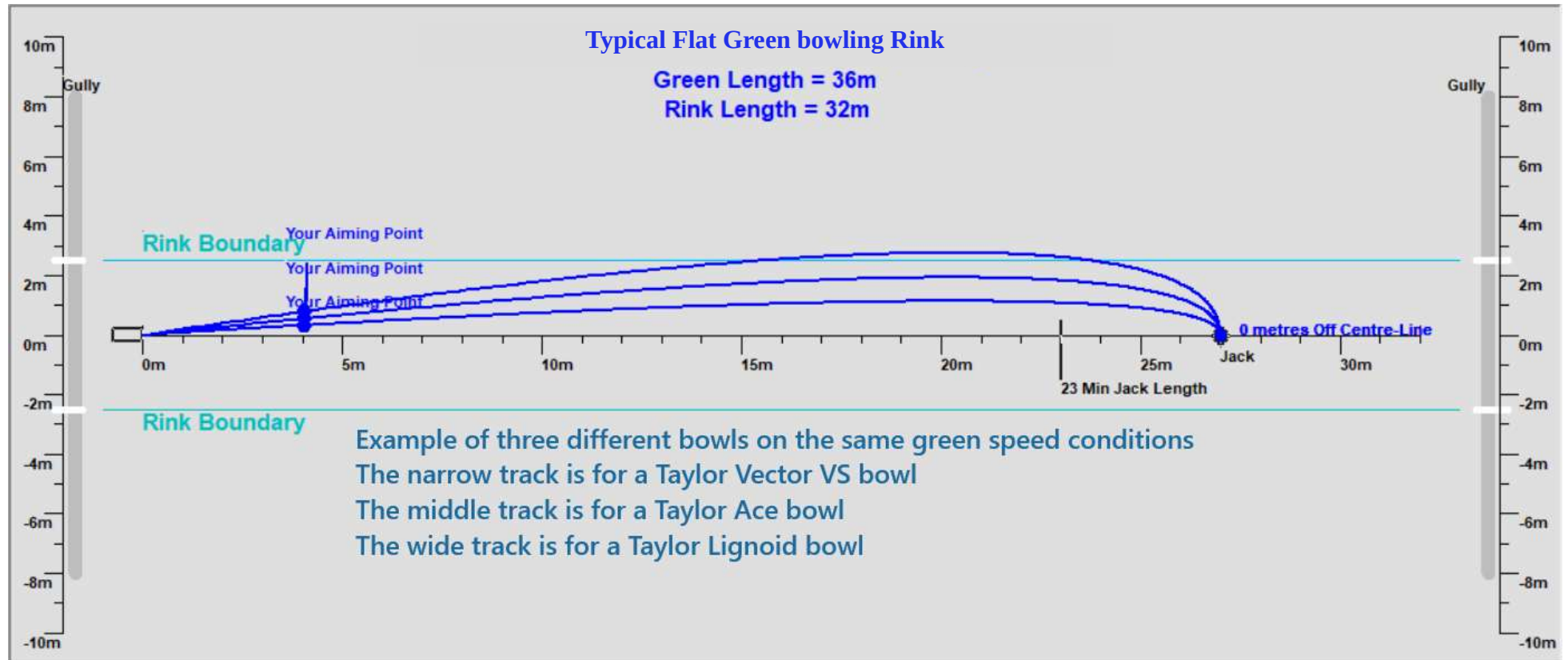
The second picture demonstrates that regardless of the length to the jack the delivery aiming line remains constant.



This third picture shows a controlled weight shot into the head by reducing the angle to half of a draw shot angle and increasing the weight to reach 110% of the jack distance.



The fourth picture shows the bowl track of different bowls on a medium speed green.



The fifth picture shows the same bowl (Taylor Ace) on different green speeds.

