Wednesday 1st July Section 4 - Movement analysis SKIU - DIVING When performing a die at the beginning of a race, there are many muscle groups and fonts race, there are many muscle groups and joine involved in this movement. Antagonistic muscle action is about the pairs of muscles that are either working or resting to allow for particular movements for example hamstring and quadrap or bicep and bricep preparation To get into On's expected low position on the block, the lower body must be in a position that pesent beschibles a lunge Both legs are bent at the knee and one foot is behind the other, the front foot in line with my hands. The knee is a hinge joint and can therefore be more into flexion and extention. During the preparation stuge, my homstrings are contracting as my kneed are bent. The hips allow me to get into this position as the it is a ball and socket joint which gives a full range of movement so that my left leg can be behind myright leg. In the upper body, the one main joints unched are shoulder and elbow. The elbow is a hinge goint and can perform flexen and extention. To prepare for The dive my elbors are slightly bent so my bicep is contracting my shoulders (ball and sacked soint) have full range of movement and are crutsbretched in front of my body (adduction as it is away from the centre of my tody).

Feedback:

Knee:

"my hamstrings are contracting" – must mention quadriceps are relaxing (antagonist pair)

Where you have said "knees are bent" – use correct terminology – flexion.

What bones make up the articulating joint at the knee?

Fixator?

Hip:

They are both in flexion (one more than the other) – what antagonistic pairs? Which one contracting and which one relaxing?

What bones make up the articulating joint at the hip?

Elbow:

"slightly bent" – correct terminology slight flexion. Bicep contracting – don't forget about the tricep relaxing (antagonistic pair).

What bones make up the articulating joint at the elbow joint?

Fixator?

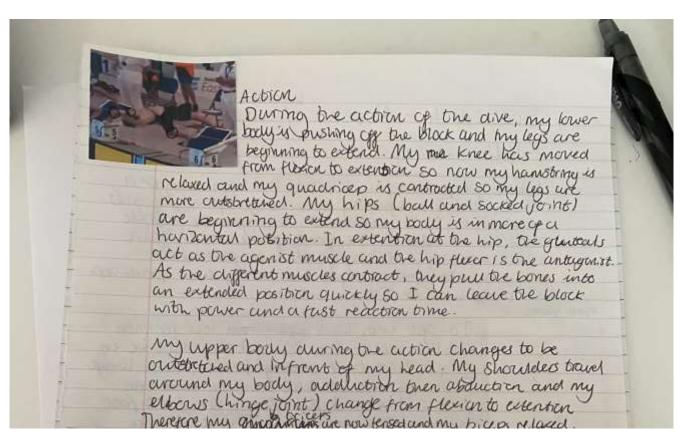
Shoulder:

Both shoulders are in flexion as you have moved them forward not out to the side.

Which antagonistic pair has caused this? Front deltoid agonist back deltoid is antagonist.

What bones make up the articulating joint at the shoulder?

Fixator?



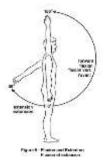
Feedback:

Shoulder: are still in flexion I think do they go straight ahead or do they go out to the side then straight ahead? may need to cover adduction and abduction too if this is the case - see picture – see points mentioned above for flexion.

I am no expert so I had to watch a few videos – see below, do shoulders go into slight extension before going into flexion? It is so quick I cant tell.

https://www.youtube.com/watch?v=So9TN0oB2QM

https://www.youtube.com/watch?v=8aY3pr_XWFY

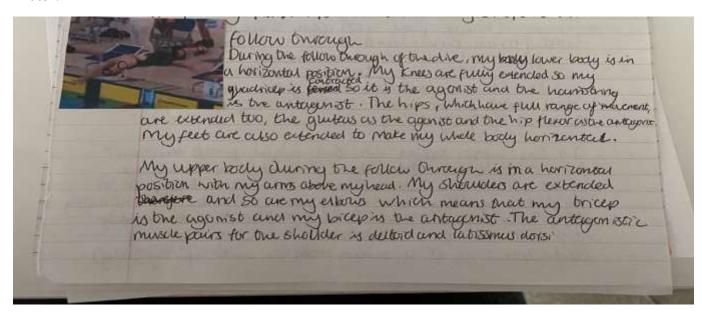


Fixator?

Elbow:

Use contract not tensed.

Fixator?



See points above.

Shoulder is now in flexion for the impact into the water

This is really good as this was a challenge.

Don't forget your articulating bones.

Must mention both antagonistic muscles and what they are doing

Use correct terminology.

Fixator?