STRETCHING

The stretch reflex

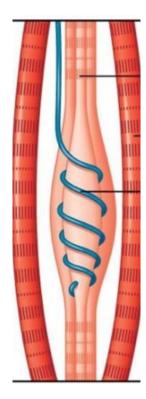
Reciprocal and Autogenic inhibition

Golgi Tendon Organs (GTO)



MUSCLE SPINDLES

- l. detect length in the muscle
- 2. detect the speed of the lengthening
- 3 tells the muscle to CONTRACT to counteract the stretch
- This is the Stretch Reflex





RECIPROCAL INHIBITION

Reciprocal = opposite

Inhibition = prevent

When one muscle contracts (the agonist) – the antagonist must relax

It's a physiological rule



AUTOGENIC INHIBITION

AUTOgenic = same

Inhibition = prevent

Tension detected by the GTO

Signals that **same** muscle to "switch off"



