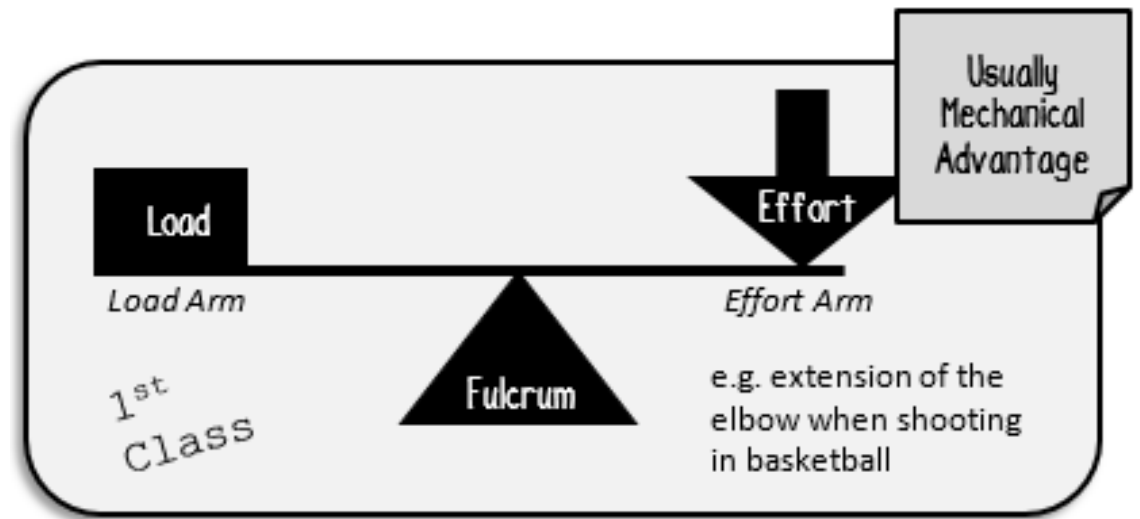


Paper 1: Movement analysis - levers

Lever Systems

1st Class Lever

- ✳ Movement at the joints occurs by one of the three classes of levers.
- ✳ Depending on the lever system, the movement is either at a mechanical advantage or disadvantage.
- ✳ A mechanical advantage allows heavy loads to be moved with minimal effort, whereas a mechanical disadvantage allows loads to be moved quickly.
- ✳ Mechanical advantage = $\text{Effort arm} \div \text{Load arm}$



2nd Class Lever

