Paper 1: Types of training

Plyometrics

What?

An eccentric contraction is performed and followed by a larger, concentric contraction

Components

Power

Advantages

Can be performed with little equipment

Disadvantages

 Requires correct technique to avoid injury

Useful for

Appropriate for those who require quick and strong contractions, e.g. sprinters

Paper 1: Optimising training - training intensities

The intensity of training can be altered in order to train different components of fitness. The calculations needed to work out the intensity of exercise required are provided below:

Calculations

Anaerobic/Aerobic

Anaerobic and aerobic training thresholds are determined by your heart rate during exercise and indicate which energy systems you are using.

One Repetition Max

$$1 RM = Weight \left(1 + \frac{Repetitions}{30}\right)$$

Max heart rate:

Training zone:

- Aerobic: 60–80% of max heart rate
- ◆ Anaerobic: 80–90% of max heart rate



Strength / power training:

- Performed with weights greater than 70% of 1 RM
- Low number of repetitions

Muscular endurance:

- Performed with weights less than 70% of 1 RM
- High number of repetitions