Paper 1: Optimising training - Altitude training

High altitude training is used by endurance athletes and involves training for several weeks at high altitude (approximately 2400m above sea level) in order to experience physical adaptions.

How it is carried out:

- Athletes carry out their normal aerobic training at high altitude.
- Due to the lack of oxygen, the oxygen-carrying capacity of the blood is reduced at high altitude.
- Therefore, more red blood cells are produced in order to provide the muscles with oxygen.

Limitations

- The benefits of high-altitude training are not long-lasting.
- Altitude sickness can be experienced, which makes it hard for athletes to complete their normal levels of training.
- If training cannot be completed due to sickness, fitness can be lost.

Benefits

- This method can be useful for any athlete who works aerobically
- Improves cardiovascular endurance at sea level



Paper 1: Warm up & cool down

Warm-up

It is important that a warm-up is performed prior to exercise in order to prepare the body for physical activity. A warm-up is designed to reduce the risk of injury and improve performance. The four main components of a warm-up, examples of each component, and the benefits of warming up are outlined below:

