Factors Affecting Fitness

Starter

- Draw your ideal sportsperson from your favourite sport
- Put them into their most perfect environment for training
- Give them all that is essential for their training needs

Objectives

- Explain some of the factors that affect fitness
- Understand that some factors can be altered and some are fixed

Age

• Strength

- Maximum Strength around 20
- 20's and 30's easy to build muscle
- After 30's protein and muscle mass fall and strength declines
- Injury and disease
 - Older = more injury, longer recovery, more disease
- Flexibility
 - Most flexible in teens
 - 30+ less flexible
- Oxygen Capacity
 - Falls and less taken by muscles
- Reaction Time
 - Slower
- Experience
 - Vital factor, more as you age

Gender

Men

- Up to 50% stronger testosterone promotes the growth of muscle and bone (Strength)
- Larger hearts and lungs and more blood (CV Endurance)
- Red blood cells contain more haemoglobin (carry O2) (CV Endurance)
- Larger, heavier and bigger bones (Bone structure)
- Move Faster more power

Women

- Wider pelvis less effective transmission of power between trunk and legs (power)
- More flexible than men
- More body fat- extra strain on the heart, joints and muscles
- Mensturation
- Pregnancy

Physique

• Certain physiques suit certain sports

• Endomorph (dumpy) – Sumo Wrestler

- Ectomorh (thin) marathon runner
- Mesomorph (Muscular)- Swimmer



Diet

- Body needs certain substances for energy and growth and repair
- Without a healthy diet your body will not function properly
- Next topic







Exercise

However unfit you are regular exercise will make you fitter



Physical Disability

- Disability means that a part of your body does not function properly
- Exercise can keep the rest of the body very fit
- Many disabled people are elite athletes



Illness and Fatigue

• When you are tired or ill you are less fit for activity

Drug Taking

 Alcohol, cigarettes and many other substances lower fitness

Stress

- Exams, overwork, money problems = stress
- Continual stress = high blood pressure and heart disease / cancer
- Short term stress affects performance = tight muscles, lack of concentration, make mistakes
- Dealing with stress = exercise and relaxation





The Environment

- Pollution affects lungs and fitness
- Weather hot humid day / windy day
- Altitude





Homework

• Questions Page 15 for Tuesday