



PAR-O: Physical Activity Readiness Questionnaire



- Fartlek
- Circuit
- Weight Cross

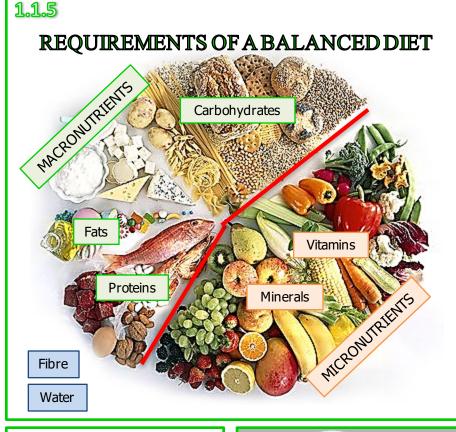
SMART Taraela ACROBIO & **ANAEROBIO** Aerobic = with o^2 Anaerobic = without o^2

TRAINING ZONE

- Anaerobic = 80 to 90% of max heart rate
- Aerobic = 60 to 80% of max heart rate
- MHR = 220 age

WARM-UP/ MAIN SESSION/ COOL-DOWN

Know the phases of each!



TIMING OF DIET

- Average meal at least 2 hours
- Large meal up to 4 • hours

WHY IS TIMING **IMPORTANT?**

- Undigested food can make you feel nauseous
- Lack of energy

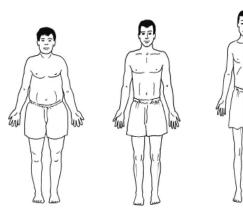
REDISTRIBUTION OF BLOOD FLOW (BLOOD SHUNTING)

VASOCONSTRICTION - blood vessels CONSTRICT to reduce blood flow to INACTIVE areas (digestive system)

VASODILATION-

blood vessels DILATE to increase blood supply to ACTIVE areas (working muscles)

1.2.1 SOMATOTYPES



Endomorph Mesomorph Ectomorph

FACTORS AFFECTING OPTIMUM WEIGHT

- HEIGHT
- SEX
- MUSCLE GIRTH
- BONE STRUCTURE/DENSITY

ANOREXIA

ANOREXIA NERVOSA – serious eating disorder. Sufferer has an obsessive wish to lose weight. Can result in:

- Fatigue
- Fainting/Dizziness
- Dehydration
- Muscular Atrophy (reduction in muscle size)
- Death

UNDERWEIGHT

Not weighing as much as expected for your height and sex. It is not healthy to be underweight.

IMPACT ON PHYSICAL ACTIVITY

Being anorexic or very underweight will lead to serious health issues. Fitness and performance levels will clearly deteriorate.

OVERWEIGHT

- Weighing more than expected for your height and sex
- Not necessarily harmful unless also Overfat
- Overweight can be due to other factors, e.g. muscle girth and bone density

- More body fat than you should have
- Excessive fat in the body can lead to:
 - High Blood Pressure
 - High Cholesterol

<u>obese</u>

Very Overfat. Fat levels have increased to a seriously unhealthy level. High levels of excess fat can lead to:

- Lack of Flexibility
- Additional stress on bones and joints
- Heart Disease
- Type 2 Diabetes
- Depression due to low self-esteem

PERFORMANCE ENHANCING DRUG

- ANABOLIC STEROIDS
- BETA BLOCKERS
 DIURETICS
- NARCOTIC ANALGESICS
- STIMULANTS
- PEPTIDE HORMONES EPO

REGREATIONAL DRUG

- ALCOHOL
- NICOTINE/SMOKING

PREVENTING RISKS IN PHYSICAL EDUCATION

- WARM-UP/COOL-DOWN
- CHECKING EQUIPMENT and FACIL
 PAR-O
- PAR-Q
- BALANCED COMPETITION
- ADHERENCE TO RULES
 CORRECT CLOTHING

1.2.2 GARDIOVASCULAR SYSTEM Superior vena cava Pulmonary arten Left atrium Right pulmonary veir Left pulmonary vein Semi lunar valve Semi lunar valv Right atrium Mitral valve Tricuspid valv Left ventricle Right ventricle Sentum nferior vena cava Descending aorta

IMMEDIATE and Short Term Effects of exercise

- INCREASED HEART RATE (beats per minute)
- INCREASED BLOOD PRESSURE (systolic & diastolic)
- INCREASED STROKE VOLUME (amount of blood leaving heart per beat)
- INCREASED BLOOD TEMPERATURE

LONG-TERM ADAPTATIONS

- DECREASED RESTING HEART RATE
- INCREASED CARDIAC OUTPUT (amount of blood pumped out of the heart per minute)
- FASTER RECOVERY RATE
- REDUCED BLOOD PRESSURE
- HYPERTROPHY OF THE MYOCARDIUM (increased size and strength of heart)
- HEALTHY VEINS AND ARTERIES
- INCREASED NUMBER OF CAPILLARIES

REST

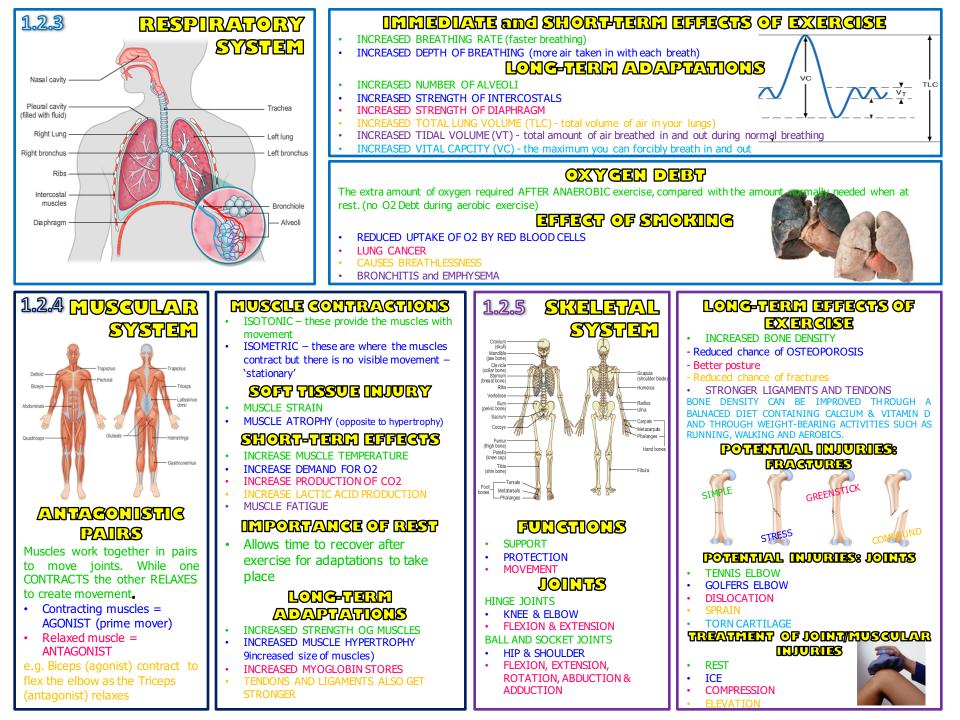
Allows time for recovery and adaptations to take place

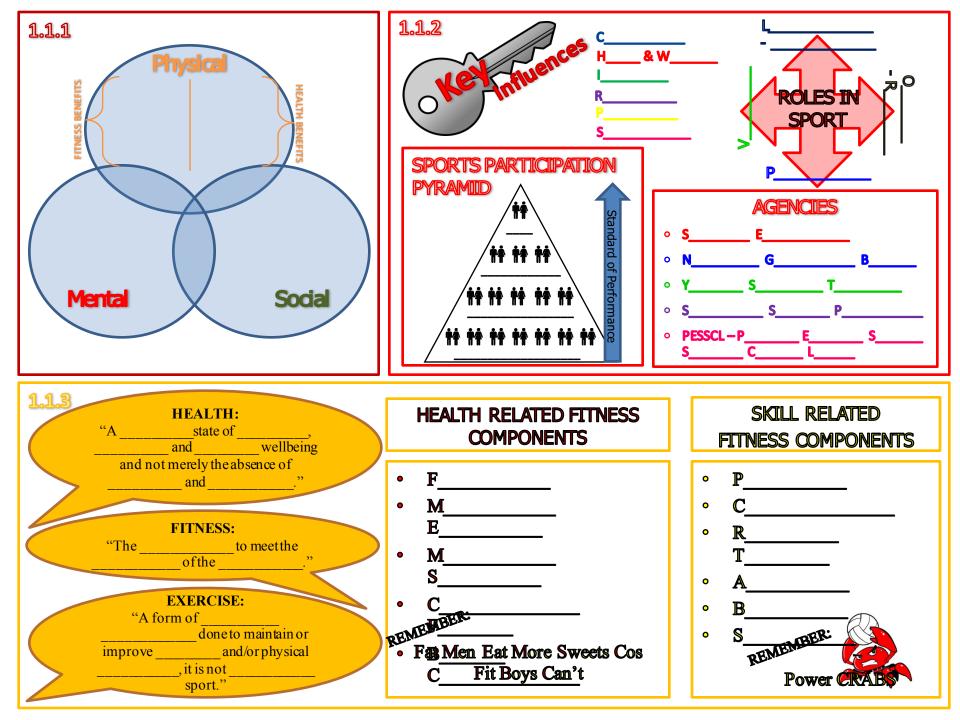
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- LDL = bad cholesterol
- HDL = good cholesterol

DRUGS

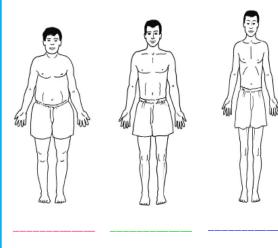
- Alcohol = increased blood pressure & heart failure
- Nicotine = Heart disease & blood clots
- RISK







1.2.1 SOMATOTYPES



FAGTORSAFFFEGGUING OPTIMUM WEIGHT

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ANOREXIA NERVOSA - serious eating disorder. Sufferer has an obsessive wish to lose weight. Can result in:

- F /D
- Μ
- D

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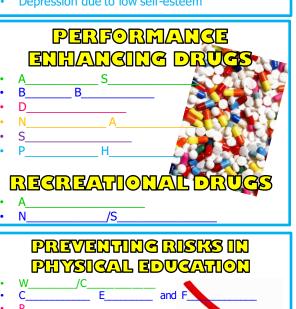
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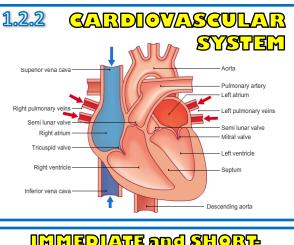
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to R

С





IMMEDIATE and Short TERM EFFECTS OF EXERGISE

- INCREASED H R (beats per minute) INCREASED B P (systolic & diastolic)
- INCREASED S V (amount of blood leaving heart per beat)
- INCREASED B

LONG-TERM ADAPTATIONS

•	DECREASED R	HEART RATE	
•	INCREASED C	O (amount of blood	
	pumped out of the	heart per minute)	
•	FASTER R	R	
•	REDUCED B	P	

- H_____OF THE M_____(increased size and strength of heart)
- HEALTHY V_____AND A_____ INCREASED NUMBER OF C_____

REST and Allows time for to take place DIET • LDL = _____ HDL = _____ DRUGS Alcohol = _____ • Nicotine = _____

