PHYSICAL FITNESS

Physical Fitness – ability of body systems including muscles, skeleton and heart, to work

together efficiently

- it is hard to reach this level but you will have more energy to enjoy life with

Total Fitness - more than just physical fitness and exercise

- whole person including physical, mental, social and emotional fitness
- includes dental, nutrition, relaxation and sleep
 - each is dependent and related to the other

Benefits of Physical Fitness

- 1. Improved Appearance improved physical appearance will help self-esteem
- 2. Improved Self-control possibly experience less stress and depression
- 3. Enjoy Life will appreciate things around you and want to do things
- 4. Increased Level of Energy will be well rested and actively doing things
- 5. Improved Physical Performance play longer, better skill, more success
- 6. Increased Work Production school or work production/alertness improves
- 7. Sleep Better will be more relaxed to fall asleep faster and sleep better
- 8. Increased Life Expectancy if the body's systems are cared for, they will last longer

Health Risk Factors

- 1. Inactivity will encounter more heart problems and diseases eliminated with exercise
- 2. Obesity puts extra strain on the body's systems as well as one's social and mental health
- 3. High Blood Pressure & Cholesterol will lead to heart and circulatory problems
- 4. Stress needs to be relieved positively to avoid negative effects
- 5. Smoking a negative habit that is 100% within your control
- 6. Heredity family history can increase your risk of certain diseases
- 7. Age the older you get the more at risk you are for certain diseases

The 11 Parts of Physical Fitness

A. Health Related

- 1. cardiovascular fitness ability to exercise entire body for long periods of time
- 2. strength amount of force your muscles produce
- 3. muscular endurance ability to use muscles many times without tiring
- 4. flexibility ability to use joints through full range of motion
- 5. body fat ratio of body fat compared to muscles, bone and other body tissues
- B. Skill Related

6. agility - ability to change position of body quickly and control body's movement - wrestlers, divers, soccer players

7. balance - ability to keep upright posture while standing or moving

- gymnastics, ice skating

- 8. coordination integration of eye, hand, and foot movements
 - striking in baseball, golf, and tennis, kicking in soccer
- 9. power ability to use strength quickly

- shot put, discus, high jump, football, swimming

- 10. reaction time amount of time it takes you to move once you realize you should - track, swimming, karate
- 11. speed ability to cover a distance or perform a movement in a short period of time - run, throw, hit

Planning a Program

A. Be medically prepared

1. schools and employers require physicals to see if you are disease free

- 2. before starting a program of vigorous exercise people over the age of 30 should have an exercise stress test
- 3. undergo a fitness evaluation that test all of the Health Related Fitness Components
- B. Be smart
 - 1. warm-up the heart and muscles before vigorous exercise
 - 2. start slowly don't do too much too soon
 - 3. purchase proper and necessary equipment
 - 4. learn proper exercises and movements
 - 5. COOL-DOWN similar to how you did your warm-up
- C. Be aware of injuries
 - 1. common strains, sprains, blisters, bruises, fractures, dislocations, cuts
 - 2. overuse from doing more exercise than used to like tendonitis

The 3 Principles of Exercise

- 1. Overload an increase in exercise or exercising more than you normally do
- 2. Progression increasing exercise gradually
 - as your body adapts to your exercise load, increase your exercise slightly to a new level
 - a. threshold of training minimum amount of overload to build fitness
 - b. target ceiling maximum amount of exercise
 - c. target fitness zone between threshold and ceiling
- 3. Specificity doing specific activities to build specific parts of fitness

The FIT Formula (ways to achieve the overload principle)

Frequency - how often you exercise, at least 3 sessions a week Intensity - how hard you exercise, not too easy or hard Time - how long you exercise, 15 minutes minimum

Calculating Target Heart Rate Zone

| Step 1 $220 - age = Maximum Heart Rate (MHR)$ | Step 1 $220 - age = MHR$ |
|---|-------------------------------|
| Step 2 MHR – Resting Heart Rate (RHR) | Step 2 MHR – RHR |
| Step 3 multiply by 60% (.6) | Step 3 multiply by 85% (.85) |
| Step 4 add RHR | Step 4 add RHR |
| Equals Lower Heart Rate Zone limit | Equals Upper Heart Rate Limit |

**When working out aerobically, the individual needs to keep heart rate within the calculated limits for the recommended time to achieve maximum health benefits.