Name	Period
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Fitness Notes: Muscular Strength

- The most weight you can lift or the most force you can exert at one time
- Is needed for all movement, which is created by the contraction of specific muscle groups
- Through exercise muscle strength can be increased
- Muscle tissue uses energy even when at rest, fatty tissue uses little, if any energy
- Each additional pound of muscle increases resting metabolism by 50 100 calories per day

Ways to Improve Strength:

CALISTHENICS - Exercises which use body weight as resistance

- Examples: Push ups, Pull ups, Sit ups

PLYOMETRICS - Exercises used to develop power

- Power is the rapid application of strength
- Includes a quick stretch followed by a strong muscle contraction
- Not recommended for teenagers : places a great deal of stress on tendons

WEIGHT LIFTING: 3 different types

- 1. ISOMETRIC Contract, or tighten muscle, but doesn't change length
 - Should do for only 6-8 seconds, then relax
 - This will improve strength, but you couldn't exercise all positions effectively

WHY IS IT GOOD? Because you can do it anywhere

ADVANTAGES: Don't need equipment, good for certain disabilities, good in small places

- 2. **ISOTONIC** Muscle lengthens and shortens through full range of movement while lowering and raising a resistance
 - The most weight you can lift is equal to your strength at your weakest point
 - This is the most common form of contraction
 - The greatest effort is required at the start and finish of the movement

WHY IS IT GOOD? Uses entire range range of motion

- 3. ISOKINETIC Muscle is overloaded through entire range of motion
 - Currently believed to be the most effective type of exercise to promote strength of a specific muscle group

WHY IS IT GOOD? Overloads the entire range of motion