

What is the definition of muscular strength?

✓ A. The maximum force that can be generated by a specific muscle or muscle group.

B. The amount of power a muscle can produce over time.

C. The length of time a muscle can keep working after overload.

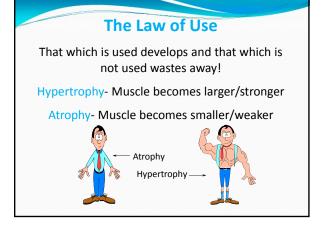


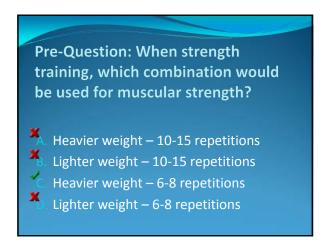


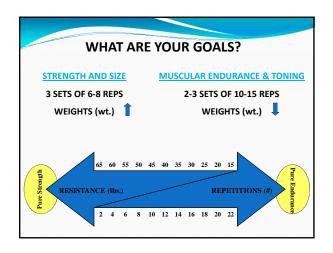
Benefits of Muscular Fitness

- Ability to do more strenuous work (strength)
- Ability to do more work over a longer period of time (endurance)
- Less susceptible to muscular fatigue (strength • Less injury prone & endurance)

 - Athletic performance
- Improved appearance







Which of the following would be lifting for muscular endurance?

- A. Heavier weight 10-15 repetitions
- ✓ B. Lighter weight 10-15 repetitions
- C. Heavier weight 6-8 repetitions
- D. Lighter weight 6-8 repetitions

Which of the following would give you larger sized muscles?

- A. Heavier weight 10-15 repetitions
- **★**B. Lighter weight 10-15 repetitions
- XC. Lighter weight 6-8 repetitions
- ✓ D. Heavier weight 6-8 repetitions

Estimating 1 Rep Max 1 rep max – is the maximum amount of weight one can lift in a single repetition for a given exercise. Can be used to determine the desired "load" for an exercise (as a percentage of the 1RM). 6 reps at 50 lbs. = 60 lbs. (estimated 1RM) 60% of 1RM - Endurance 80% of 1RM - Strength



Why should preteens and teens be careful when lifting a heavy amount of weight?

- **X** A. Increases the amount of testosterone
- B. Oversized muscle
- C. May break a bone or damage growth plate
- **▼** D. Must buy new clothes due to tone body

- They may break a bone or do damage to the growth center of the bone.
- Bones are not yet fully formed





What are some myths about strength training?

Myth: Strength training makes females look more masculine **Fact:** Female hormones prevent overdevelopment

Myth: Strength training makes you "muscle bound" **Fact:** Proper training, including flexibility exercises, improves functioning

Why is proper technique important??

Get desired results & Avoid injuries

What is proper technique??

- Warm-up
- Full Range of Motion
- Proper Amount of Weight
- Controlled Smooth Movements
- Use a spotter
- Adjust machine



Your muscles will get stronger when you work them more than they are used to.

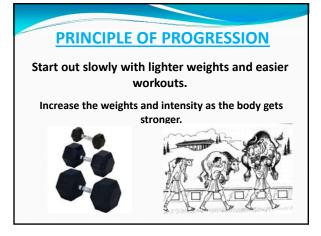
🖊 A. True

🗶 B. False



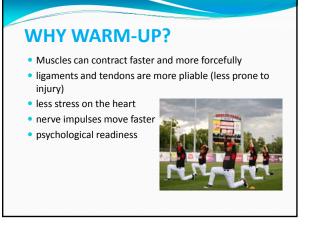
Is it okay to start off lifting heavy weights so that you get a good workout.







CONCENTRIC - MUSCLE SHORTENS (force is greater than resistance) ECCENTRIC - MUSCLE LENGTHENS (force is less than resistance) ISOMETRIC - MUSCLE LENGTH DOES NOT CHANGE (force = resistance)



MUSCLE FIBER TYPES

FAST TWITCH

- Fast Contraction
- High Power
- Low Endurance
- Less Oxygen Dependent

SLOW TWITCH

- Slow Contraction
- Low Power
- High Endurance
- Uses Oxygen

