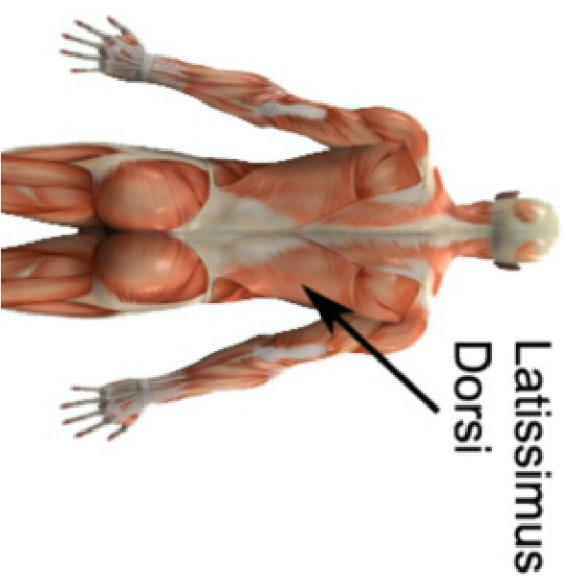
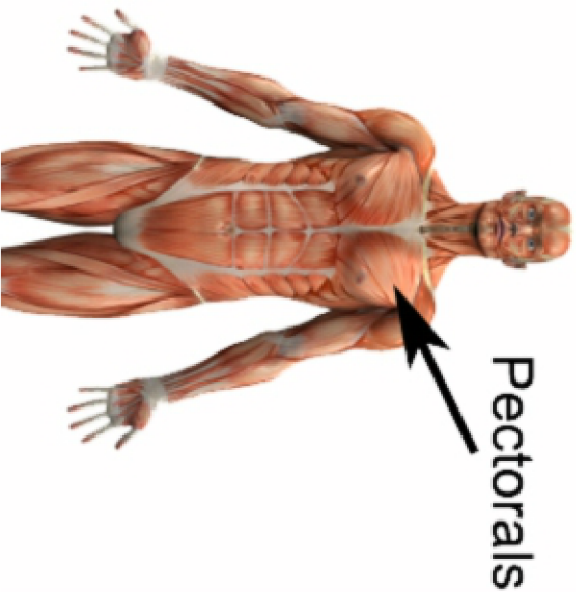


Deltoid

Trapezius

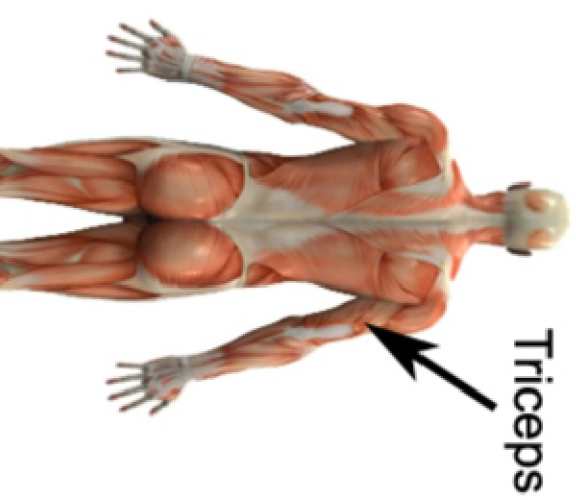
Mod: Trap



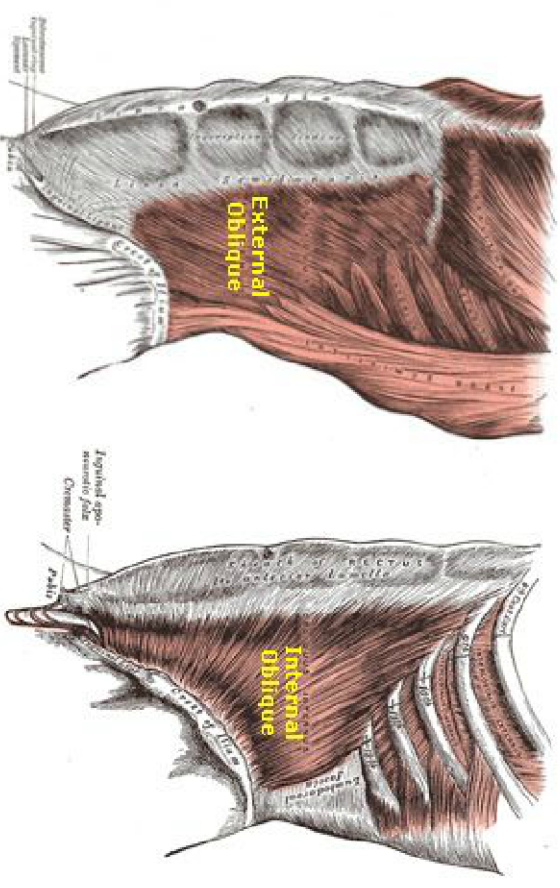
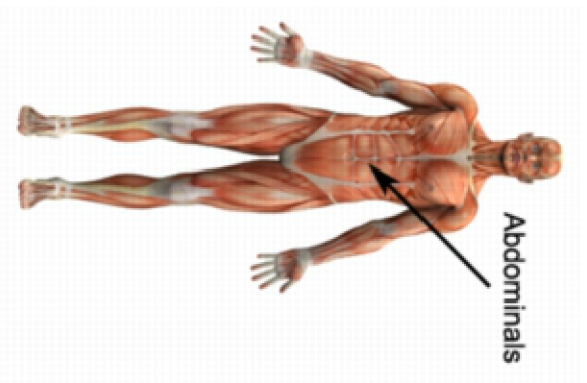
Pectorals Latissimus Dorsi

Mod: Pecs

Mod: Lat



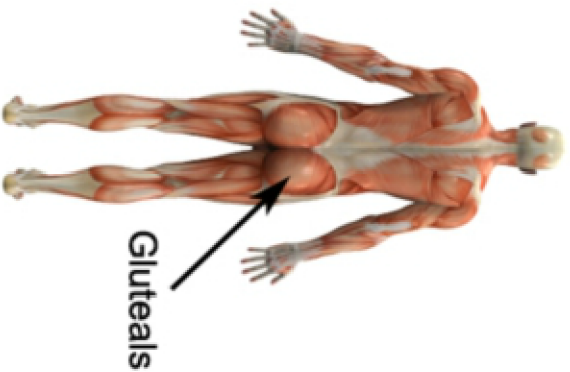
Bicep Tricep



Abdominals

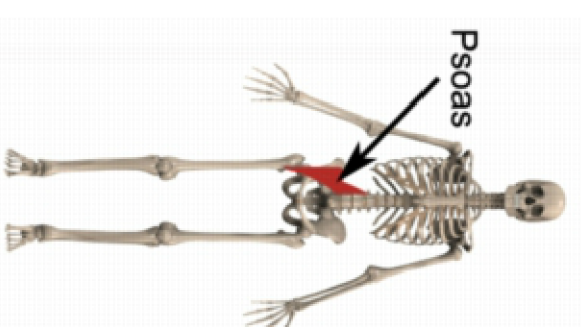
Obliques

Mod: Abs

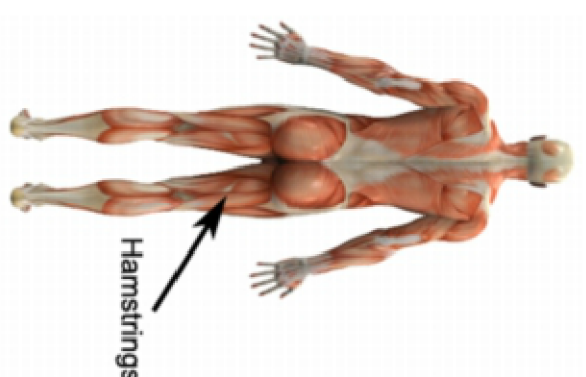
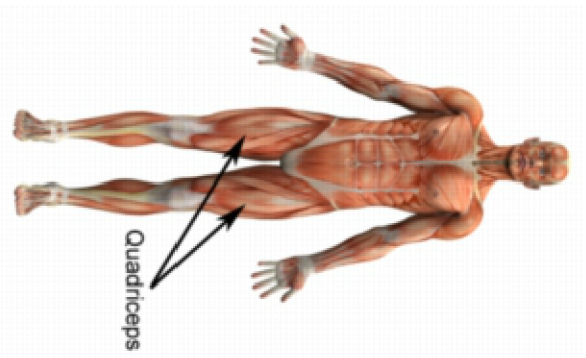


Gluteals

Mod: Glutes

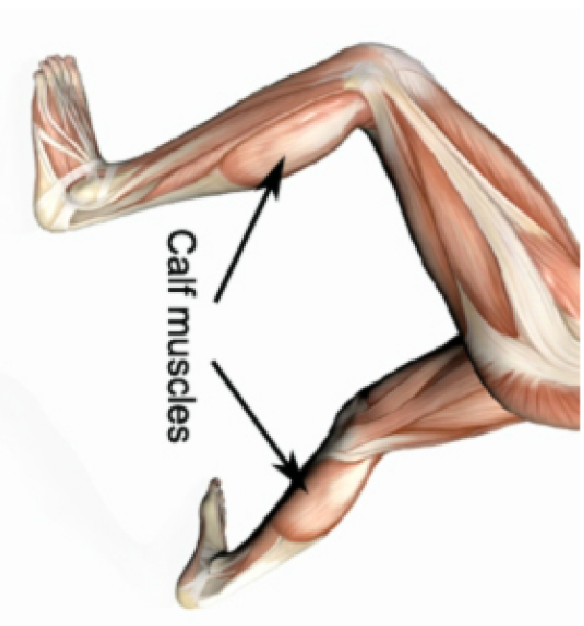


Psoas



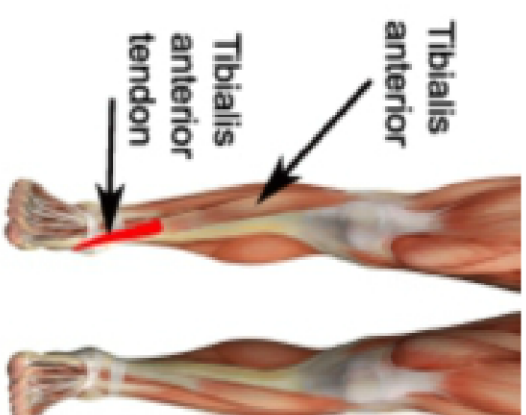
Quadricep Hamstring

Mod: Quad



Gastrocnemius

Mod: Calf



Tibialis

Anterior

Every time our muscles contract they pull on our bones causing more bone material to be layed down strengthening our skeleton

What effect does exercise have on our skeleton?

The body will adapt to a greater than normal stress/load on the body resulting in a gain in overall strength given enough recovery time. In order for a muscle (including the heart) to increase strength, it must be gradually stressed by working against a load greater than it is used to. To increase endurance, muscles must work for a longer period of time than they are used to.

The extra load breaks down the muscles causing microtears. Given enough rest/recovery & proper nutrition, the body heals these microtears with more protein increasing the size and strength of the muscle over time.

Overload
Principle

Exercising a certain body part
generally develops that part.

The Principle of Specificity implies that,
to become better at a particular
exercise or skill, you must perform
that exercise or skill.

Use it or Lose It!

Your muscles hypertrophy (get larger) with
use and atrophy (get smaller) with disuse.

If good stress is removed or decreased there
will be a decrease in that particular
component of fitness.

A normal amount of exercise will
maintain the current fitness level.

Principle of Principle of Specificity Use /Disuse

They atrophy (wasting away of muscle)

Pectorals - Latissimus Dorsi
Bicep - Tricep
Gluteals - Psoas
Quadricep - Hamstring
Gastrocnemius - Tibialis Anterior

What happens to
muscles when they
aren't challenged?

Name working muscle pairs

EX. arm in cast, walking on crutches,
not being active over extended school

(one contracts while the other
relaxes & vice versa)

- Less Injuries
 - Heal faster when injured
- Improved performance when moving
 - Better physical appearance
- Increased stamina/endurance
- Daily life demands are easier

**Flexion decreases
the angle between
the bones of the
limb at a joint.**

Benefits of Strong, Flexible Muscles

Flexion

Extension increases
the angle between
the bones of the
limb at a joint.

Body parts
rotating around
a fixed axis/center
(a.k.a. joints on the
human body)

Extension Rotation