Chapter Six Flexibility

The rubber band theory applies to each of us; we will be no good until stretched.

Objectives

- Z How is joint movement limited?
- Why is flexibility important?
- What is the difference between static stretching and dynamic stretching?
- Z How may the training principles be applied to improve flexibility?

Objectives

- What safety precautions should be taken when you are engaging in flexibility exercises?
- Z How is flexibility evaluated?

Vocabulary

? joint--

point at which 2 bones come together

7 ligament--

strong, fibrous tissue which attaches one bone to another

nuscle

meaty tissue surrounding bones

? tendon--

soft tissues that anchor muscles to bones

static stretching—

slowly moving a muscle to its stretching point and holding the position for 15 seconds

? dynamic stretching--

stretching done in continuous, slow, and controlled manner

Vocabulary

- allistic stretching--
- stretching that involves bobbing, bouncing or jerky movements which use the body's momentum
- sostatic stretching--
- form of stretching in which a partner pushes the body beyond the initial limit

Evaluate Goals





What Is Flexibility?

The ability to move body
____through a full
____ of

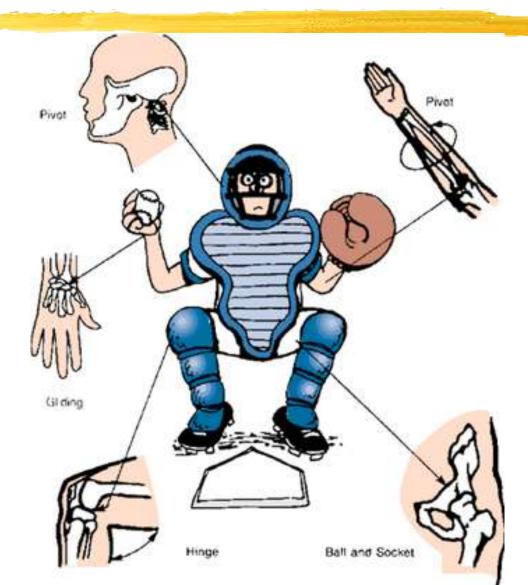
Joints Of The Human Body

- **Z** Point at which 2 bones come together
- Z Types
 - y *P_____*
 - y Gliding
 - v H
 - y _____ and ____

Vocabulary



Joints Of The Human Body



Joint Movement

- <u>Direction</u> is limited by _____ structure& can't be _____
- Z Range of motion is limited by ______ through flexibility _____

Objective



What Limits Flexibility?

- **z** *Muscle*:_____
- z Tendon: anchors _____ to ____

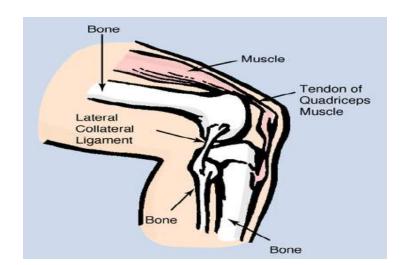
Vocabulary



Objective



2 of 2



Why Is Flexibility Important?

- Needed in daily living
- Z Reduces chance of _____
- Z Increases capacity of ______ to move
- Prevents muscles from shortening
- Z Helps relieve muscle _____

Objective



Why Is Flexibility Important?

- Helps _____ chance of developingback pain
- Z Helps relax muscle tightness from injury, fatigue, and ______ tension









Types of Stretching

- Z Ballistic bouncing, jerky movement using body's momentum
- z ______- slowly move muscle to stretching point
- **z** *Dynamic* -______, _______, and
- z ______- use a partner to stretch beyond your limit

F.I.T. Applied to Flexibility

Z Increase overload by increasing:

- y F_____ number of sessions per day or week
- y I______ distance the muscle is stretched
- y T_____ length of time the position is held, or number of repetitions and sets

Objective



Principle of Progression

Z	Gradually increase		= 55944	_ by increasing
			or _	of
	the	exercise.		
		z Principle o	of Specific	city
Z	Stretchi	ng exercises will		flexibility
		in joints exe	rcised	
Z	Flexibility is specific to each:			
	1. I			
	2. J			
	3. S			

Flexibility Safety Precautions

- 3 Unsafe flexibility exercises
- 3 Avoid ballistic stretching
- 3 Don't use a partner to stretch
- 3 Start at your appropriate level & progress slowly
- 3 Stretch by what feels comfortable to you don't follow others
- Objective 3 Combine cardiovascular, muscular strength & endurance exercises to prevent imbalance.

Flexibility Assessment

z Tests

- y _____-and-___
- y _____ lift

Vocabulary



y _____ dynamic flexibility

Objective



- Z Stretching exercises will help
 - A. Avoid injuries
 - B. Build strength
 - C. Develop cardiovascular endurance
 - D. None of the above



- Z Joints can be prepared for vigorous physical activity by doing
 - A. Push-ups
 - B. Sit-ups
 - C. Stretching
 - D. Weight training



Z Muscles and other connective tissues should be stretched

- A. 3 times per week
- B. Only before jogging
- C. Once a week
- D. When it is cold



Z To increase flexibility, you must overload the muscle by:

- A. Increasing you running distance
- B. Lifting heavy weights
- C. Performing isometric exercises
- D. Stretching farther than normal



- Which exercise below is a safe exercise for developing flexibility?
 - A. Achilles tendon stretch
 - B. Deep knee bends
 - C. Four-count toe touch
 - D. Hurdle stretch

Answer