Physical Therapy Exercises

Exercising daily plays a main role in the process of healing and recovering from injury or disease. This is the goal of physical therapy exercises. Stretching and strengthening activities are only a few types of physical therapy exercises. Balance, joint control, and muscle re-training are other types of important physical therapy exercises.

Task 1

Fill the gaps with the correct word chosen from below.

increase joints recovery health immune regular cardiovascular

Physical exercise is the performance of some activity in order to develop or maintain physical fitness and overall ______. Frequent and _______exercise is an important component in the prevention of the diseases such as heart disease, cardiovascular disease, Type 2 diabetes and obesity.

Exercises are generally grouped into three types depending on the overall effect they have on the human body:

1. Flexibility exercises such as stretching improve the range of motion of muscles and

2. Aerobic exercises such as walking and running focus on increasing ______ endurance.

3. Anaerobic exercises such as weightlifting or sprinting _____muscle strength.

Physical exercise is important for physical fitness including healthy weight, building and maintaining healthy bones, muscles and joints; and strengthening the ______ system. Proper nutrition is at least as important to health as exercise. When exercising it becomes even more important to have good diet to ensure the body has the correct ratio of micro and macronutrients to help the body with the ______ process after exercising.

Task 2 Speaking

Compare the following types of exercises, their methods and goals, explain the acronyms:

Endurance training Resistance training (strengthening exercises) – isotonic, isometric, isokinetic ex. Flexibility training Bed-ridden and convalescing patients: AAROM ex., PROM ex., circulatory ex. Balance and stability training Functional mobility training Gait training Back school Aquatic exercises Relaxation technique ADL training HEP training

Task 3:

Read the following instructions how to perform certain exercises. The instructions are mixed up. Put them into a chronological and logical order:

1. Triceps Extension - Strengthens muscles in back of upper arm.

- 1. Bend raised arm at elbow, bringing hand weight toward same shoulder.
- 2. Raise one arm straight toward ceiling.
- 3. Feet flat on floor; keep feet even with shoulders.
- 4. Support this arm, below elbow, with other hand.
- 5. Hold position.
- 6. Slowly re-straighten arm toward ceiling.
- 7. Slowly bend arm toward shoulder again
- 8. Sit in chair, near front edge.

2. Hamstrings - Stretches muscles in back of thigh.

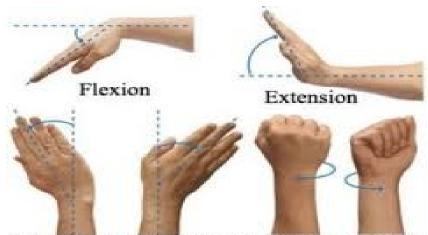
1. Lean forward from hips (not waist) till you feel stretching in leg on bench, keeping back and shoulders straight. Hold position.

- 2. Repeat with other leg.
- 3. Straighten back
- 4. Keep other leg off of bench, with foot flat on floor.
- 5. Sit sideways on bench.
- 6. Keep one leg stretched out on bench, straight.

3. Shoulder Rotation

- 1. Hold position.
- 2. Stretch arms out to side.
- 3. Keep shoulders flat on floor.
- 4. Bend elbows to crook lower arms downward, at right angle.
- 5. Lie flat on floor, pillow under head.
- 6. Bend elbows to crook lower arms upward, at right angle.
- 7. Hold position.

Task 4: Look at the pictures and explain the described movements:

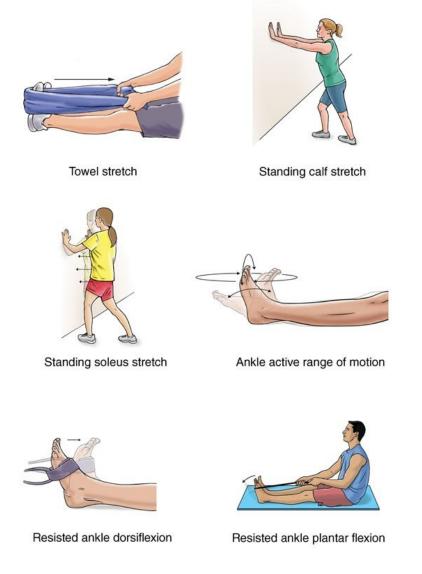


Radial Deviation Ulnar Deviation Pronation Supination



Task 5:

Here are some pictures of various physiotherapy exercises. First study the pictures properly, then choose 4 pictures and describe how to perform the exercises:



Broken Ankle Rehabilitation Exercises

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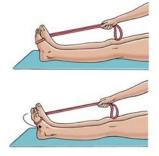
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Broken Ankle Rehabilitation Exercises



Resisted ankle inversion





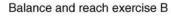
Resisted ankle eversion



Step-up



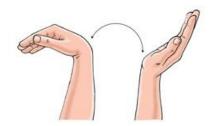
Balance and reach exercise A



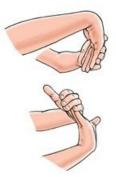
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Medial Epicondylitis (Golfer's Elbow) Rehabilitation Exercises

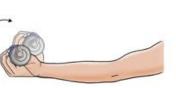


Wrist active range of motion: Flexion and extension





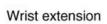






Forearm pronation and supination

Wrist flexion





Grip strengthening





Resisted elbow flexion and extension

Forearm pronation and supination strengthening

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Patellofemoral Pain Syndrome (Runner's Knee) Rehabilitation Exercises







Wall squat with a ball

Knee stabilization: A



Knee stabilization: D



Resisted terminal knee extension



Knee stabilization: C

Standing calf stretch



Clam exercise



Iliotibial band stretch (side-bending)

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Quadriceps Contusion (Thigh Bruise) and Strain Rehabilitation Exercises



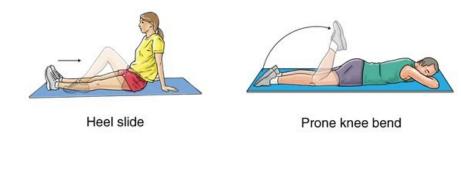


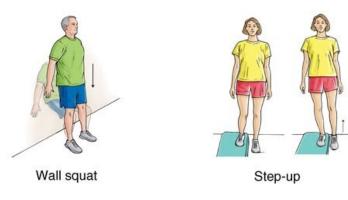


Quadriceps stretch

Quad sets

Straight leg raise





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Now choose some of your classmates to perform the exercises as you describe them.

Task 6: Here is a list of exercises. Classify them into two groups:

moderate (=using lower degree of energy) and vigorous (=full of energy)

- Swimming
- Hiking
- Digging holes
- Cross-country skiing
- Gardening
- Walking quickly on a level surface
- Mopping floor
- Cycling on a stationary bicycle
- Swimming laps

- Fast bicycling up hills
- Dancing
- Downhill skiing
- Volleyball
- Rowing
- Jogging
- Climbing stairs or hills
- Bicycling

Adapted from:

http://www.orthohyd.com/exercises-yoga

http://physicaltherapy.about.com

http://physicaltherapy.about.com/gi/o.htm?zi=1/XJ&zTi=1&sdn=physicaltherapy&cdn=health&tm=2 0&gps=255_334_1276_882&f=11&tt=14&bt=0&bts=0&zu=http%3A//weboflife.ksc.nasa.gov/exercis eandaging/chapter4_balance.html

Task 7 Listening – Giving instructions Pilates Exercises – One-leg stretch

http://www.ehow.com/video_4940402_pilates-exercises-oneleg-stretch.html Listen to a fitness trainer describing a Pilates exercise and write down as many verbs describing movement as possible.

Follow-up: Complete the gaps with parts of the body.

The second secon	8 1 1 1 1 1 1 1 1 1 1
Rotate yourc	lock-wise / anti-clock-wise
Shrug your	
Turn your	from side to side
	apart/ shoulder width apart
Keep yours	traight
Bring/ stretch/ extend your	to the side/ overhead/ straight forward
Swing from side to side and around in a circle	
Bend forward from your	and relax
Clasp your bel	ind your head
Cross over y	your chest
Lie on your, arms a	t the side, down/up, now bend your
	and pull it towards your
Squat on the floor with one	bent up against the chest, the other leg stretched out behind
Kneel on the ground,	apart
Lift up/ raise your	

Lift up/ raise your _____.

Task 8

- a) Prepare a set of exercises that will ensure development of all large muscle groups in the body.
- b) Consider a sport and develop exercises applying the overload principle that would develop all the large muscle groups used in the sport.