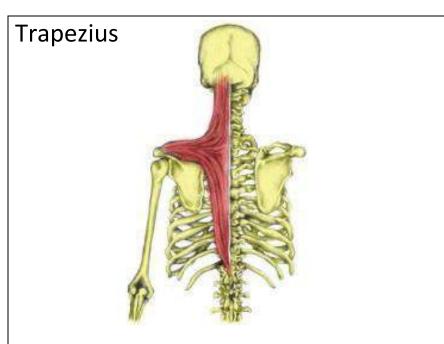
В	Name:				
Cl	ass:				

# **Upper Body Muscles of the Human Body and Their Functions**



Origin: Base of Cranium, Upper Spine

Insertion: Clavicle, Scapula

Actions: <u>Lift Scapula, Upward Rotation of Scapula</u>

Daily Uses: Shrugging Shoulders, Overhead movements of arm

Latissimus Dorsi



Origin: <u>Top of Pelvis, Mid-Lower Spine</u>

Insertion: Humerus

Actions: Adduction and Internal Rotation of Humerus

Daily Uses: Pushing on a chair to help stand up, Pulling down

# Deltoid

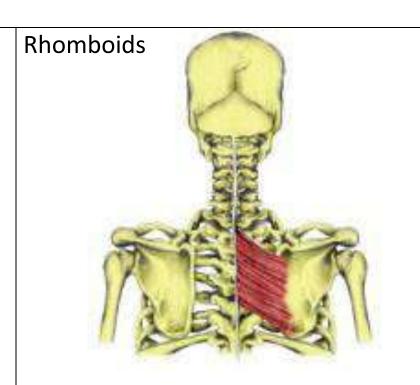


Origin: Clavicle and Scapula

Insertion: Humerus

Actions: Shoulder Abduction

Daily Uses: <u>Lifting</u>

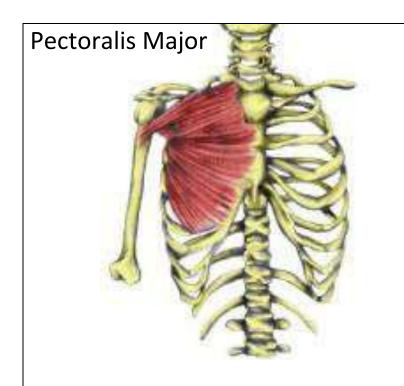


Origin: Spine below neck

Insertion: Scapula

Actions: Rotation of Scapula down

Daily Uses: Pulling open a drawer



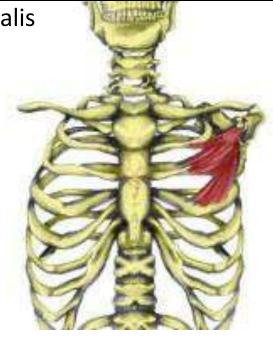
Clavicle, First 6 Ribs, Sternum Origin:\_\_\_

Insertion: Humerus

Actions: Shoulder Flexion, Adduction of Humerus

Daily Uses: Putting on deodorant, Pushing, Giving a High Five

**Pectoralis** Minor



Origin: Ribs 3-5

Insertion: Scapula

Actions: Rotation of Scapula down

Daily Uses: Pushing open a door

# Sternocleidomastoid



Origin: Sternum, Clavicle

Insertion: Cranium (behind the ear)

Actions: Flex neck to Sternum and Shoulders

Daily Uses: <u>Looking at the floor, Looking over shoulder, holding</u> a phone between your ear and shoulder

**Serratus Anterior** 

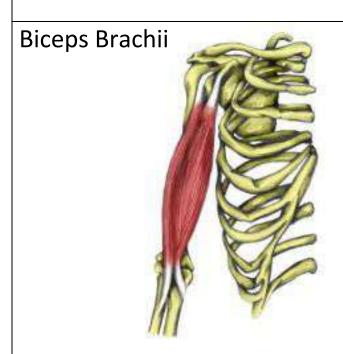


Origin: Upper 9 ribs on chest

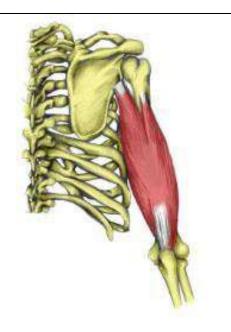
Insertion: Scapula

Actions: Rotation of Scapula up

Daily Uses: Reaching for something that is above your head



Triceps Brachii



Origin: Scapula

Insertion: Radius, Ulna

Actions: Elbow Flexion, Supination of forearm

Daily Uses: Picking up a backpack, Putting on Glasses

Origin: Scapula, Top of Humerus

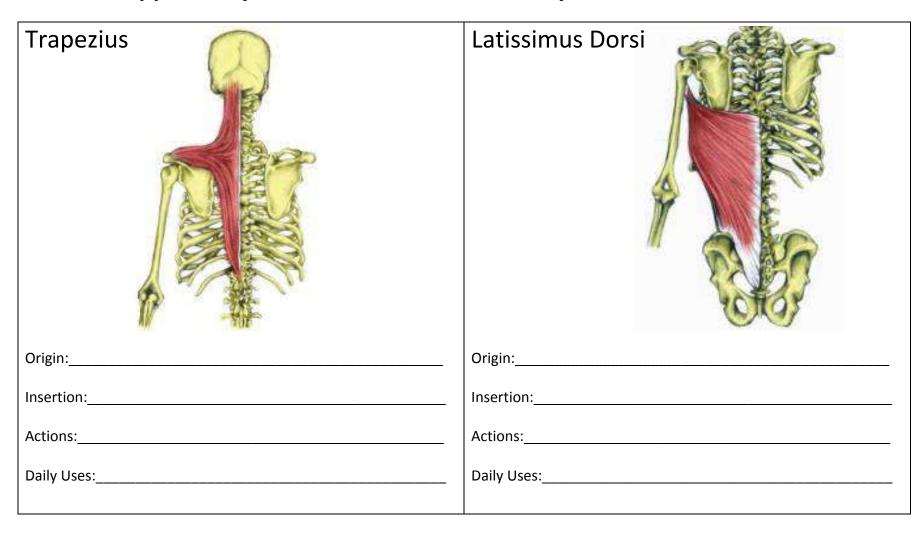
Insertion: Ulna

Actions: Elbow Extension

Daily Uses: Closing a door by pushing, Getting out of bed

Name:			
_			
Class			

# **Upper Body Muscles of the Human Body and Their Functions**



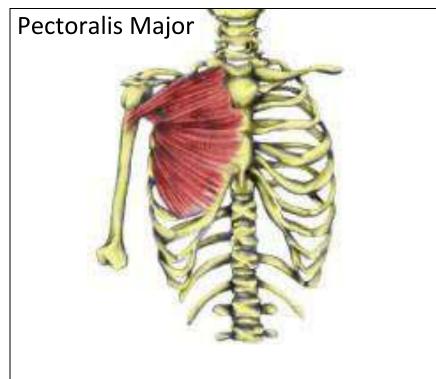
# Deltoid

Actions:\_\_\_\_

Daily Uses:\_\_\_\_\_

Deltoid	Rhomboids
Origin:	Origin:
Insertion:	Insertion:
Actions:	Actions:

Daily Uses:



Pectoralis Major	Pectoralis Minor
Origin:	Origin:
Insertion:	Insertion:
Actions:	Actions:
Daily Uses:	Daily Uses:

# Sternocleidomastoid

Origin:
Insertion:
Actions:
Daily Uses:

Serratus Anterior 🚜
Serratus Arriterior
Serratus Arrienor

Origin:	
Insertion:	
Actions:	
Daily Uses:	

Biceps Brachii	Triceps Brachii
Origin:	Origin:
Insertion:	Insertion:
Actions:	Actions:
Daily Uses:	Daily Uses:

# Types of Joints

# **Synovial Joints**

Joint Type	Movement at joint	Examples	Structure
Hinge	Flexion/Extension	Elbow/Knee	Hinge joint
Pivot	Rotation of one bone around another		
		Top of the neck (atlas and axis bones)	Pivot Joint
Ball and Socket	Flexion/Extension/Adduction/ Abduction/Internal & External Rotation	AS S	
		Shoulder/Hip	Ball and socket joint

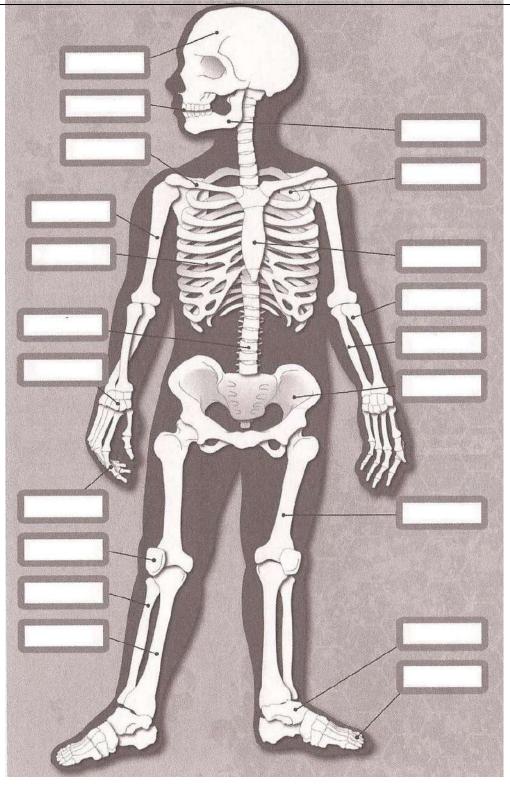
Saddle	Flexion/Extension/Adduction/ Abduction/Circumduction		
		Joint of the thumb	Saddle joint
Condyloid	Flexion/Extension/Adduction/ Abduction/Circumduction		
		Wrist	Condyloid joint
Gliding	Gliding movements		
		Intercarpal joints	Gliding joint

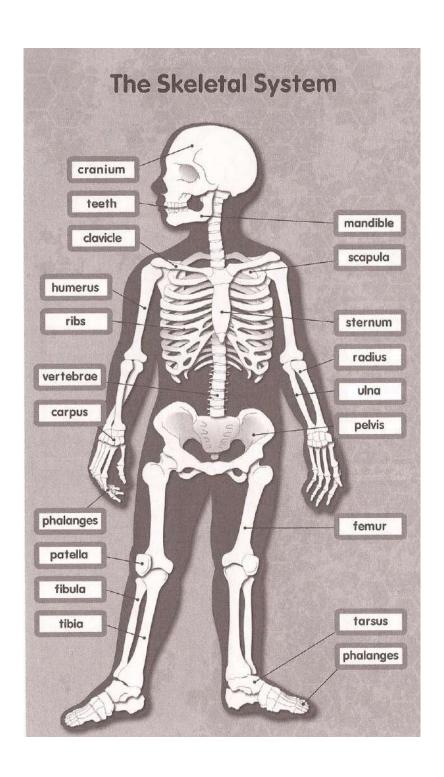
# **The Human Skeletal System**

Name:	Class:	

*Directions:* Match the names of the bones from the word bank to the diagram.

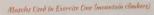
Mandible	Cranium	Scapula	Phalanges	Carpus
Teeth	Vertebrae	Radius	Pelvis	Tibia
Patella	<b>Phalanges</b>	Ulna	Humerus	Ribs
Femur	Tarsus	Fibula	Clavicle	Sternum





### One. Mountain Climbers

- 1. Place a chair in front of you.
- 2. Step onto the chair one foot at a time and raise your hands.
- 3. Step back down.
- 4. Repeat



- Rectus Femoria Biceps Femoris

- Triceps Brachie





- hanger.
- 2. Grab the hangers (put a hand on each hanger). Place your hands on the hooks of the hangers, where the elastic is.



- 1. Two people hold the broomstick horizontally.
- 2. Another person goes in a push-up position and puts their feet on the broomstick.
- 3. The person with their feet on the broomstick then does push-ups.
- 4. The two people hold the broomstick and some weight of the person.
- \*If you don't have three people, replace the people holding the broomstick with chairs.



Elastic Pull

- 1. Connect one end of a piece of elastic to one hanger and connect the other end to another
- 3. Pull the hangers apart.
- 4. Repeat.

Muscles Used in Exercise Two (Limber)

- Biceps Brackii
- Triceps Bruchit
- Rectus Abdominus Deltoit

Muscles Used in Exercise Three (elastic pulls)

- Interment Dorst Rhembooks









# **Types of Joints**

### What are Joints?

1. A	place in the bod	y where	or more	connect.

2. \_\_\_\_\_ joints allow for a \_\_\_\_\_ degree of movement.

Joint Type	Definition	Examples	Picture	Movement (Circle)
Hinge	Allows movement back and forth in one direction	Elbow Knee Ankle Fingers & Toes		Flexion Extension Adduction Abduction Rotation Circumduction Gliding
Pivot	One bone rotates around the axis of the other bone in the joint	Elbow Neck Wrist		Flexion Extension Adduction Abduction Rotation Circumduction Gliding

Ball & Socket	Allows the limbs to rotate in all directions.	Shoulder Hip	Flexion Extension Adduction Abduction Rotation Circumduction Gliding
Saddle	Can move back and forth and up and down	Thumb	Flexion Extension Adduction Abduction Rotation Circumduction Gliding
Condyloid	oval-shaped end of one bone fitting into a similarly oval-shaped hollow of another bone	Wrist Knuckles Fingers & toes	Flexion Extension Adduction Abduction Rotation Circumduction Gliding

Gliding	Where two	Wrist	Flexion
Gilding	bones meet at a flat or almost flat surface	Ankles Spine	Extension Adduction Abduction Rotation Circumduction Gliding

# **Joint Movements**

1. Flexion- Angle at the joint gets	·
2. Extension- Angle at the joint gets	•
3. Adduction- Any movementsbody.	the midline of the
4. Abduction- Any movementsbody.	from the midline of the
5. Rotation- Movement around the	axis.
6 Circumduction- The	movement of a limb

7. Gliding- Any movements up and down, left and right, and
·
Additional Notes:

# **Skeletal System Anatomy Skit Class Presentation**

Need to includ	de at least 10 bones using proper scientific names	
Skit must be presented to the class		
Every student in the group needs to have at least one part in the skit		
	props during the skit. (Can be brought in from home) ed copy of skit for grading	
rioriae a type	and copy or since for grading	
nes included in s		
	7	
	7 8	

Name	Class	Date
Activity	2 2	
Datasheet for	In-Text Activity	
MOVE YOUR MUSCLES  Perform the following mov	ements. Then, use the space	below to indicate which
muscles were involved in e	ach movement.	
Raise your arm		
Bend your arm		
rite and the second		
Point your toe		
Stand up		
Raise your knee		
ANALYSIS  1. Did any movements rethink these movements	quire the use of more than o	one muscle? Why do you an one muscle?
16		
V <del>II</del>		
Copyright © by Holt, Rinehart and Wi	nston. All rights reserved.	

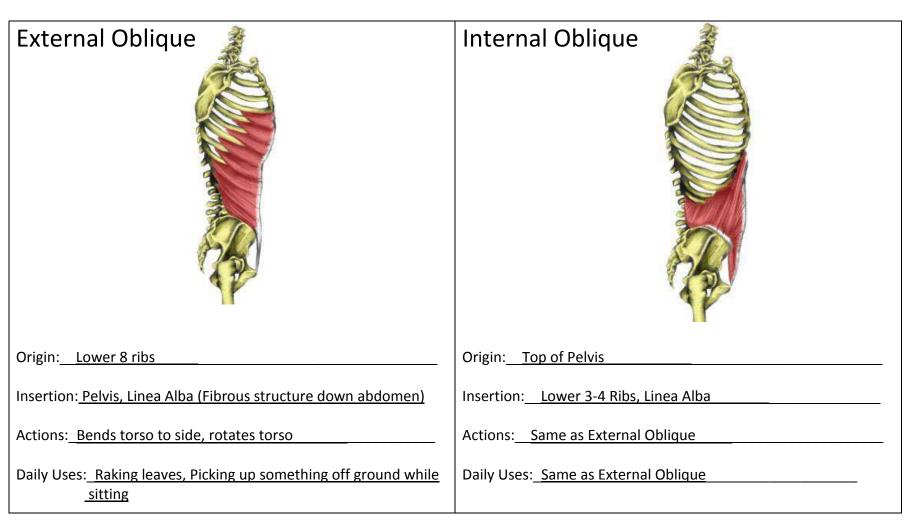
36

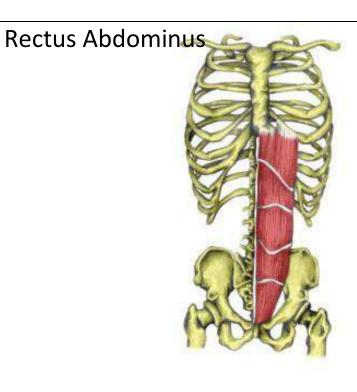
Decisions for Health

Your Body Systems

rName:			
Class:			

# **Lower Body Muscles of the Human Body and Their Functions**





# Transverse Abdominus



Origin: Pelvis	
----------------	--

Insertion: Bottom of Sternum, end of bottom Ribs

Actions: Flexes Spine

Daily Uses: Sitting up

Origin: Pelvis

Insertion: Linea Alba

Actions: Compresses Abdomen

Daily Uses: Maintaining good posture

Rectus Femoris

Part of Quads



Origin: Pelvis

Insertion: Patella and tendon from patella to tibia

Actions: Flexion of hip, Extension of knee

Daily Uses: Kicking a ball

Semimembranosus part of hamstrings

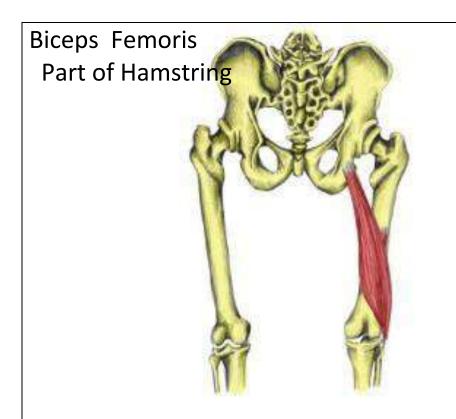


Origin: Pelvis

Insertion: Tibia

Actions: Hip extension, Knee flexion

Daily Uses: Bending Knee to step over an object



Tibialis Anterior



Origin: Pelvis (Sit bone)

Insertion: Tibia, Femur

Actions: Hip extension, Knee Flexion

Daily Uses: Bending knee to step over an object

Origin: Upper half of anterior part of the Tibia

Insertion: Tarsals

Actions: Dorsi flexion (Decreasing angle between foot and leg)

Daily Uses: Walking (lifting up foot)

# Soleus



Gastrocnemius



Origin: Upper posterior part of Tibia and Fibula

Insertion: Posterior part of heel via the Achilles tendon

Actions: Plantar flexion

Daily Uses: Standing, standing on tip toes

Origin: Lower posterior part of Femur

Insertion: Posterior part of heel via Achilles tendon

Actions: Plantar flexion

Daily Uses: Standing on tip toes, jumping

# Gluteus Maximus



Origin: Posterior part of Pelvis and Sacrum

Insertion: Posterior part of upper Femur

Actions: Hip extension, external rotation of hip

Daily Uses: Walking up stairs (extension part)

### **Gluteus Medius**



### Gluteus Minimus



Origin: Pelvis

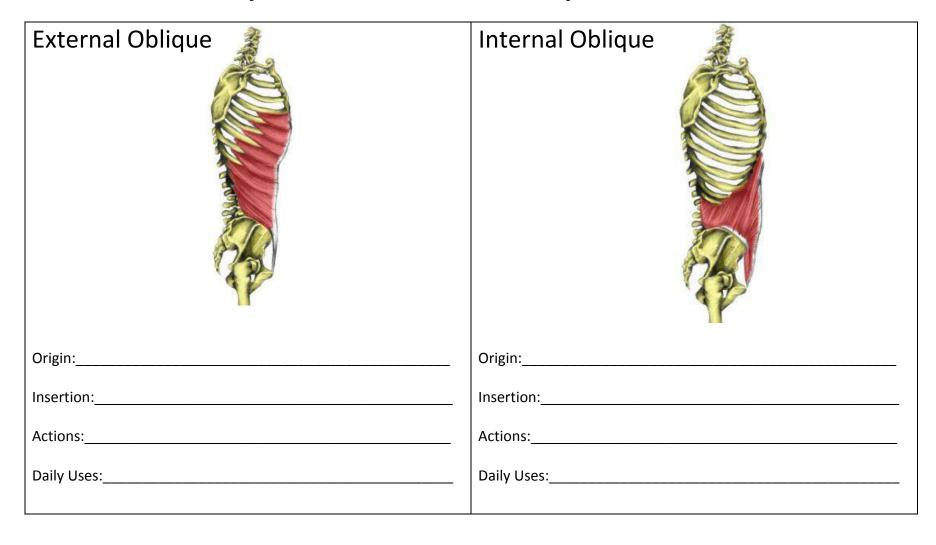
Insertion: Upper part of Femur

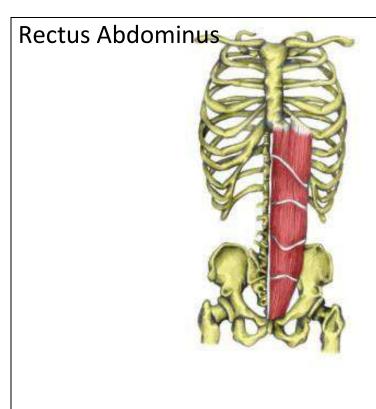
Actions: Hip abduction, Internal rotation of Hip

Daily Uses: Getting out of a car, side stepping

Name:			
Class:			

# **Lower Body Muscles of the Human Body and Their Functions**





# Transverse Abdominus



Origin:
Insertion:
insertion
Actions:
Daily Uses:

Origin:	 	 
Insertion:		
Actions:		
Daily Uses:		

# Rectus Femoris

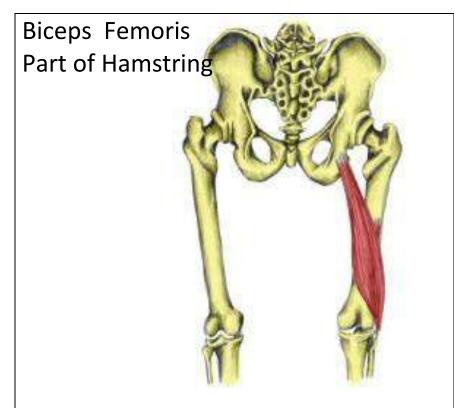


Origin:
Insertion:
Actions:
Actions.
Daily Uses:
Dally Uses.

# Semimembranosus part of hamstrings



Origin:	 	 
Insertion:	 	 
Actions:	 	 
Daily Uses:		



Origin:
Insertion:
Actions:
Daily Uses:
Daily Uses

Tibialis Anterior	
Origin:	
Insertion:	
Actions:	

Daily Uses:

# Soleus Gastrocnemius Origin:\_\_\_\_ Origin: Insertion:\_\_\_\_\_ Insertion:\_\_\_\_\_ Actions:\_\_\_\_ Actions:

Daily Uses:\_\_\_\_\_

Daily Uses:

Gluteus	Gluteus Medius
Maximus	Gluteus Minimus
Origin:	Origin:
Insertion:	Insertion:
Actions:	Actions:
Daily Uses:	Daily Uses:





origin:	 		
nsertion:	 	 	
Actions:		 	

# **Grading Rubric for Skeletal System Anatomy Class Presentation**

Group Names:		
--------------	--	--

Criteria	2	4	6	8
Number of	No bones	5-6 bones used	7-8 bones	All 10 bones
Bones Used	used		used	used
Proper Identification of Bones Location	No bones properly identified	5-6 bones properly identified	7-8 bones properly identified	All bones bones properly identified
Group Participation/ Organization	Not fully prepared to present	Prepared but group members were not focused on presenting	Prepared but unorganized thoughts presented	All students in group worked together effectively
Creativity	No creativity shown	Correct use of bones but not presented in creative manner	Presented creatively but not all bones were incorporated effectively	Incorporated all bones into an original creative skit
				Total

Final Grade:	/32 =	%
--------------	-------	---

**Comments:** 

# **Grading Rubric for At Home Exercises Class Presentation**

Group Member Names:			
Exercise Names: #1	#2	#3	

Criteria	0	2	3	4	Exercise Scores		
Muscles Worked	No muscles listed	No appropriate muscles listed	Some correct and some incorrect muscles listed	All muscles listed are appropriate for exercise	1	2	3
Description of Exercise	Poor description with no connection to the exercise	Understandable but needs significant improvement	Good explanation but could use improvement	Excellent description of exercise			
Description of stretch	Poor description and not appropriate for muscles worked	Understandable but not appropriate for muscles worked	Good description but could use improvement. Appropriate for muscles worked	Excellent description of exercise. Appropriate for muscles worked			
Household items used	No household items used	Uncommon household items used	Item used worked adequately but other applications should have been explored	Item used worked perfectly for the exercise			
Modifications to increase difficulty	No modifications presented	Modifications did not increase the difficulty	Modifications slightly increased the difficulty	Modifications appropriately increased the difficulty			

Final Grade:	/60 =	9/
i illai Graac.		/

**Comments:** 

# **At Home Exercises Class Presentation**

Names:			
Requirements:			
-Three Muscles or Muscle groups (provide proper scientific names for the muscles worked) -One exercise for each muscle or muscle group (Name the exercise that you create) -One stretch for each muscle or muscle group -Need to use everyday household items in exercise -Provide at least one modification to increase the difficulty of the exercise			
1. Exercise Name:			
-Muscles worked:			
-Household Materials Needed:			
Description of how to perform the exercise:			
Description of how to increase the difficulty of the exercise:			
Description of how to stretch the muscles worked:			

2. Exercise Name:
-Muscles worked:
-Household Materials Needed:
Description of how to perform the exercise:
Description of how to increase the difficulty of the exercise:
Description of how to stretch the muscles worked:

3. Exercise Name:	
-Muscles worked:	
-Household Materials Needed:	
Description of how to perform the exercise:	
Description of how to increase the difficulty of the exercise:	
Description of how to stretch the muscles worked:	