# INTRODUCTION TO RESISTANCE TRAINING PE20F

#### Why do we do Resistance Training?

- Strengthens tendons and ligaments
- Improves success at physical activities (makes your stronger, faster, and do things easier)
- Improves posture
- Lowers chance of injury
- Decreases the size of fat cells
- Increases metabolism (makes body burn more calories)
- Can control your body composition (body fat vs. lean muscle)

#### What are the rules of the FRC Weight Room?

- Must be changed in your gym clothes
- Do not go in without supervisor or teacher
- Must have clean gym shoes
- Do not fool around
- If you cannot do something, you can ask how to do it.
- If something is broken, tell the teacher so they can fix it.
- No food or drinks inside. Water is okay!
- No dropping weights on the ground.
- Clean the machine after using it.

#### Words you need to know:

**Repetitions (Reps)** – the number of times you do an exercise. For example, if you do 10 push-ups, that is 10 "reps".

Sets - A group of Repetitions (Reps)

For Example:

"3 sets of 10 reps" would mean...



#### **MUSCULAR STRENGTH**

Training your muscles. to lift a lot of weight

How much weight can you lift?



Heavy Weights
Low Reps (Less than 8 reps)
Long Rest (30 seconds – 2 minutes)

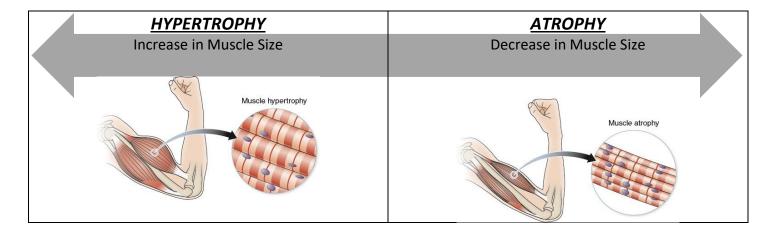
#### **MUSCULAR ENDURANCE**

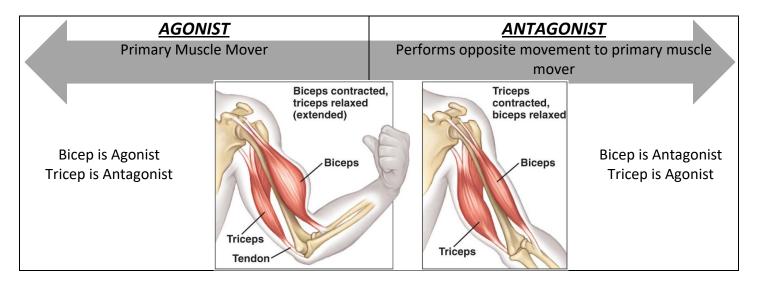
Training your muscles to lift a weight for a long time

How many reps can you do?



Lighter Weights
High Reps (More than 12)
Short Rest (15 – 30 seconds)







Always Warm-up and Cool Down



Put equipment back after using it



Don't hog the machine! Other people want to use it!





Don't be a stinker!
Use deodorant and wear
clean clothes and shoes.



How do you behave and act in a weight room?



Give people space when they are exercising



No food or drinks in the weight room. Water only!



No one needs a lot of people to do 1 exercise. Don't stand around and watch



Use your phone for music, not to take pictures, texting/phone calls, or watch videos



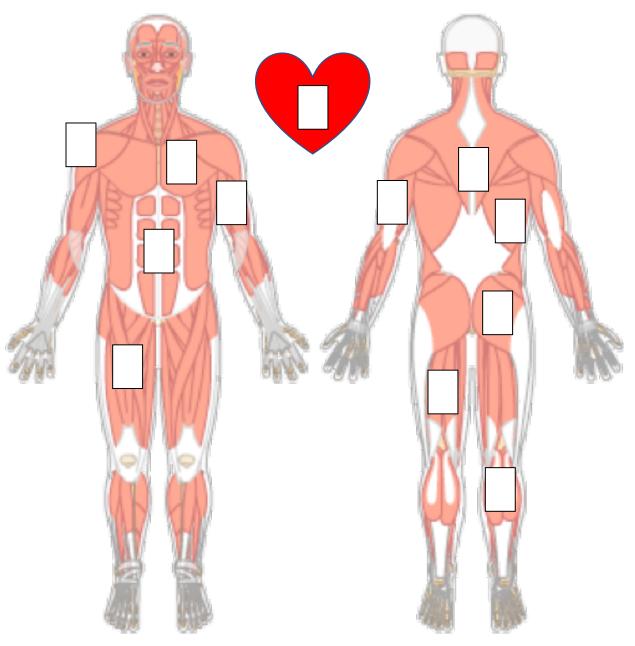
If someone asks for help, you can help them.

If they don't ask for help, don't help them!



Use headphones to listen to YOUR music

### What areas of the body do we exercise?



1) Deltoid (Shoulder)	2) Abdominals (Abs/Core/Stomach)
3) Rhomboids, Trapezius (Back)	4) Biceps (Arms)
5) Gluteus Maximus (Glutes)	6) Cardio (Heart)
7) Hamstrings (Legs)	8) Triceps (Arms)
9) Chest (Pecs)	10) Quadriceps (Legs)
11) Calf (Legs)	12) Latissimus Dorsi (Back)



Fit ball Crunch

**Abdominals** 



**Russian Twist** 

**Abdominals** 



**Machine Leg Curl** 

Hamstrings



Videos of these exercises are here!



**Machine Chest Press** 

Chest (Pecs)



**Machine Mid Row** 

Back



**Machine Leg Press** 

Hamstrings, Quadriceps,
Gluteus Maximus



**Machine Assisted Chin-up** 

Back



**Leg Lifts** 

**Abdominals** 



**Machine Back Extension** 

Back



Videos of these exercises are here!



**Machine Lat Pulldown** 

Back



**Machine Leg Extension** 

Quadriceps



**Machine Shoulder Press** 

Shoulder (Deltoid)



**Machine Bicep Curl** 

Biceps



**Machine Chest Fly** 

Chest (Pecs)



**Dumbbell Tricep Extension** 

Triceps



Videos of these exercises are here!



**Cable Tricep Press** 

Triceps



**Lateral Dumbbell Raise** 

Shoulder (Deltoid)



**Dumbbell Bicep Curl** 

Biceps



**Standing Calf Press** 

Calf

### **WORKOUT 1**

CARDIO (15 minutes total)				
Treadmill	Arc Trainer	Bike	Rower	
			Tomas O	
1.5% Incline Minimum 5.0 mph speed	Stay above 140 SPM	Gear 8 - 10 RPM minimum 100	Stay above 25 SPM	
Time:	Time:	Time:	Time:	

MUSCULAR STRENGTH & ENDURANCE (Check box when complete)				
Machine Chest Press		Weight Used  8 – 12 Reps Set 1	Weight Used  8 – 12 Reps Set 2	Weight Used  8 – 12 Reps Set 3
Machine Mid Row		Weight Used  8 – 12 Reps Set 1	Weight Used  8 – 12 Reps Set 2	Weight Used  8 – 12 Reps Set 3
Machine Chest Fly		Weight Used  8 – 12 Reps Set 1	Weight Used  8 – 12 Reps Set 2	Weight Used  8 – 12 Reps Set 3
Machine Lat Pulldown		Weight Used  8 – 12 Reps Set 1	Weight Used  8 – 12 Reps Set 2	Weight Used  8 – 12 Reps Set 3

Push-ups		8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3
Assisted Pull- up	mon	Weight Used  8 – 12 Reps Set 1	Weight Used  8 – 12 Reps Set 2	Weight Used  8 – 12 Reps Set 3
Dumbbell Chest Press on Incline bench		Weight Used  8 – 12 Reps Set 1	Weight Used  8 – 12 Reps Set 2	Weight Used  8 – 12 Reps Set 3
Back Extension		Weight Used  8 – 12 Reps Set 1	Weight Used  8 – 12 Reps Set 2	Weight Used  8 – 12 Reps Set 3
Fit ball Crunch	STEP 2	20 Reps Set 1	20 Reps Set 2	20 Reps Set 3
Leg Lifts		8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3

## WORKOUT 2

CARDIO (15 minutes total)				
Treadmill	Arc Trainer	Bike	Rower	
			Transmit .	
1.5% Incline Minimum 5.0 mph speed	Stay above 140 SPM	Gear 8 - 10 RPM minimum 100	Stay above 25 SPM	
Time:	Time:	Time:	Time:	

MUSCULAR STRENGTH & ENDURANCE (Check box when complete)				
Machine Leg Press		Weight Used	Weight Used	Weight Used
11033		8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3
Machine Bicep		Weight Used	Weight Used	Weight Used
Curl		8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3
Machine Leg		Weight Used	Weight Used	Weight Used
Extension		8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3
Tricep Press		Weight Used	Weight Used	Weight Used
πιτερ πεσσ		8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3

Machine Leg	Weight Used	Weight Used	Weight Used
Curl	8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3
Machine Shoulder	Weight Used	Weight Used	Weight Used
Press	8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3
Air Squat	Weight Used	Weight Used	Weight Used
All Squat	8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3
Front and Side Shoulder	Weight Used	Weight Used	Weight Used
Raise with Dumbbell	8 – 12 Reps Set 1	8 – 12 Reps Set 2	8 – 12 Reps Set 3
Russian Twist with	Weight Used	Weight Used	Weight Used
Medicine Ball	20 Reps (10 each side) Set 1	20 Reps (10 each side) Set 2	20 Reps (10 each side) Set 3
Plank			
	30 Seconds Set 1	30 Seconds Set 2	30 Seconds Set 3