## 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...


AGONIST
Primary Muscle Mover
Bicep is Agonist
Tricep is Antagonist

| 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. | Weight Room | Give people space when they are exercising |
| No food or drinks in the weight room. Water only! | How do you behave and act in a weight room? | 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) |




Machine Assisted Chin-up
Back


Leg Lifts
Abdominals


Machine Back Extension Back


Machine Leg Extension
Quadriceps


Machine Shoulder Press
Shoulder (Deltoid)


## WORKOUT 1

| CARDIO (15 minutes total) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Treadmill | Arc Trainer | Bike | Rower |  |  |
| 1.5\% Incline <br> Minimum 5.0 mph speed <br> Time: | Time: | Stay above 140 SPM | Gear 8-10 <br> RPM minimum 100 <br> Time: |  |  |


| MUSCULAR STRENGTH \& ENDURANCE (Check box when complete) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Machine Chest Press |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Machine Mid |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Machine Chest |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Machine LatPulldown |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |


| Push-ups |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Weight Used | Weight Used | Weight Used |
| up |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Dumbbell Chest Press on Incline bench |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Back Extension |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Fit ball Crunch |  | $\begin{gathered} 20 \text { Reps } \\ \text { Set } 1 \\ \hline \end{gathered}$ | $\begin{gathered} 20 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 20 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Leg Lifts |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |

## WORKOUT 2

| CARDIO (15 minutes total) |  |  |  |
| :---: | :---: | :---: | :---: |
| Treadmill | Arc Trainer | Bike | Rower |
| 1.5\% Incline Minimum 5.0 mph speed <br> Time: $\qquad$ | Stay above 140 SPM <br> Time: $\qquad$ | Gear 8-10 <br> RPM minimum 100 <br> Time: $\qquad$ |  <br> Stay above 25 SPM <br> Time: $\qquad$ |


| MUSCULAR STRENGTH \& ENDURANCE (Check box when complete) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Machine Leg |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Machine Bicep Curl |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \end{gathered}$ |
| Machine Leg Extension |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \\ \hline \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \\ \hline \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \\ \hline \end{gathered}$ |
| Tricep Press |  | Weight Used | Weight Used | Weight Used |
|  |  | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 1 \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 2 \\ \hline \end{gathered}$ | $\begin{gathered} 8-12 \text { Reps } \\ \text { Set } 3 \\ \hline \end{gathered}$ |



