# ECMS PHYSICAL EDUCATION DEPARTMENT - HOW TO CALCULATE TARGET HEART RATE ZONE 

## PURPOSE

It is very important throughout life to maintain a strong and healthy heart and lungs (aerobic capacity). The best way to do this is to participate in $30-45$ minutes of moderate to vigorous exercise per day. To make sure you are getting the most out of your workouts, you should exercise within what is called your "Training Heart Rate Zone". This worksheet will teach you how to calculate for that zone/range, which is $60-80 \%$ of your maximum heart rate. $\quad \mathbf{~} 60 \%=$ low intensity, $70 \%$ = moderate intensity,, $80 \%$ = high intensity)

## KEY TERMS/VOCABULARY

Maximal HR (MHR) - is found by subtracting 220 - your age. $\quad$ [220 - age $=$ MHR]
Resting HR (RHR) - the rate your heart beats when at rest for at least 30 minutes
Target HR (THR) - is the number of times you want your heart to beat during low to high Intensity exercise to achieve or maximal aerobic capacity and good health.
Target Heart Rate Zone - The numerical range within which you want your heart to beat during exercise. In class this range/ zone is $60-80 \%$ of your Maximal HR. (MHR)

## HOW TO LOCATE YOUR PULSE

Every time your heart beats it sends a wave of pressure along your arteries. This wave is called your PULSE and it can be felt in several areas throughout your body. The 2 most common places to find your pulse are your carotid artery (front of neck) and radial artery (wrist). You can find your pulse by placing 2 fingers (using your finger pads) on either the carotid or radial arteries. (You should never use your thumb. Your thumb has it's own pulse)

Carotid Artery- located on the front side of your neck on either side of the (Adams Apple) the lump in the center of your neck/front of your throat.
Radial Artery- located on the underside of your wrist on the thumb side, it is the spot where your arm changes into your hand. (see picture down to the right on this worksheet)

CALCULATING YOUR TARGET HEART RATE ZONE - for low to high intensity exercise
STEP 1- Find your Resting Heart Rate (RHR) by counting your pulse for 60 seconds My RHR is $\qquad$ bpm

STEP 2- Find your Maximal Heart Rate (MHR) by subtracting 220 - your age 220 - $\qquad$ $=\overline{m y M H R}$

STEP 3- Find "N" by subtracting your MHR (maximal HR) - RHR (resting HR)


STEP 4- Find the LOWER END of your Training Heart Rate ZONE (THR)
$\frac{\mathrm{N}}{\mathrm{x}} .6=\ldots+\frac{}{\mathrm{RHR}}=\frac{}{\text { lower THR }}$

STEP 5- Find the UPPER END of your Training Heart Rate ZONE (THR)

$\varlimsup_{N} \times .8=\ldots+\frac{}{\text { RHR }}=\frac{\text { upper THR }}{}$ to $\qquad$ beats per minute (BPM)
lower THR
higher THR

