Aerobic Fitness Assessment

	Lab Results -Step Test-				
85% predicted HRmax	168bpm	85% predicted 28b/10s HRmax			
Stage Nu	Stage Number		-		
1		-			
2		-			
3		130			
4		140			
5		138			
6		151			
7	7		159		
8		178			

Post-Test Measurements				
Time (min)	HR (bpm)	BP (mmHg)		
1	154	140/60		
3	123	113/66		
5	106	98/60		

Aerobic Fitness Score				
Lab Result	Normative Values			
	Excellent: 472+			
539.9mL/kg/min	Very Good: 420-471			
	Good: 378-419			
	Fair: 350-377			
	Needs Improvement: <350			

Interpretation of Results: According to these fitness test results, this individual is in excellent shape. The purpose of this type of test is to predict the body's maximal oxygen uptake (body's ability to use, deliver, and uptake oxygen) without putting the body under much stress. This is an important factor to a soccer player's fitness as the sport has a large aerobic and anaerobic demand – the more efficient your body is (the higher your VO2max is), the more efficient you will be on the field.

The step test though, tends to over-predict aerobic fitness, especially in already fit participants. Its original purpose was to measure aerobic fitness of cardiac rehabilitation patients so that is what it should be used for. Results of this test can be skewed easily since it only uses heart rate. Heart rate can be affected by hydration, illness, food intake prior to test, and caffeine. It is also restrictive for certain populations (i.e. osteoporotic knee subjects – causes pain; extremely obese subjects – difficulty stepping).

Lab Results -YMCA-													
85% predicted HRmax		168bpm		85% predicted HRmax		ed	28b/10s						
Time (min) Res		sistance (W)	Cadence (rpm)			(bpm)	R	PE					
First	1		25		60		80		2				
Workload	2	25		5 60			83		2				
	3	25		60			85		2				
Second	4		100 60		60		93		5				
Workload	5		100 60		110			6					
6			100	60		115			7				
Third	7		50	60			106		7				
Workload	8		50	50 60		100		6					
	9	50		60			97		6				
Fourth	10		125 60		60		149		9				
Workload	11		125 60		60		60		60		156		11
	12		125	60		60			160		13		

Post-Test Measures				
Time (min)	HR (bpm)	BP (mmHg)		
1	152	155/60		
3	145	137/66		
5	132	120/64		

Interpretation of Results: