1	The Perfect Pull-up
2	Ву
3	XXXXXXXXXXXXX
4	
5	To: XXXXXXXX
6	CEO of Gold Gym

In order to accomplish the perfect pull-up into your routine, you should first know how the muscles in your body will work to achieve the desired result you are looking for. The primary muscles are the Latissimus dorsi, it is a large and broad muscle in the back that is used in moving your shoulder. The Biceps brachii is the flexor muscle that is located in front of the upper arm that flexes the forearm. The secondary muscles are the Trapezius, it's a large muscle that runs through the neck, shoulders and upper back. Brachioradialis, it is located in the upper forearm. Deltoid, it is the thick triangular muscle that covers the shoulder joint. Teres Major, this is a broad muscle that lies behind the Latissimus dorsi. Rhomboid, are located in the upper back that help with movement of the shoulder blade. Rectus Abdominis, this is a large, long, flat muscle that runs along both sides of the abdomen. Obliques, these muscles are located on either side of the torso. Pectoralis Major, a thick muscle located at the chest. Triceps Brachii, a large muscle located on the back of the upper arm. Each skeletal muscle has muscle tissue, connective tissue, blood vessels and nerves. (1) There are three layers of connective tissue that are associated with each muscle. An epimysium, a perimysium and an endomysium. The entire muscle is covered with a layer of collagen fibers called epimysium. It is connected to the deep fascia, a dense connective tissue layer. The connective tissue fibers of the perimsium divide the skeletal muscle into compartments, each containing a bundle of muscle fibers called a fascicle. The fascicles has branches of blood vessels and nerves. Within each fascicle has delicate connective tissue of the endomysium, that surrounds the muscle fibers and loosely interconnects adjacent muscle fibers. This elastic connective tissue contains capillary networks that supply blood to the muscle fiber, Myosatellite cells that repair damaged muscle tissue and nerve fibers that control the muscle. At the end of each muscle is a bundle of collagen fibers that come together to form a tendon. (2) When you work a muscle, contraction happens. This is where the wonderful process called the

sliding filament theory comes in. When the skeletal muscle fiber contracts the H and I bands get

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

the cells into the blood to be carried to the lungs, where it is exhaled. The water becomes a necessary

part of a cell's internal fluid. The heat contributes to normal body temperature. If too much heat is

23

24

1	generated,	such as during vigorous physical activities, the excess heat is carried away and removed from		
2	the body through the process of sweating. (3)			
3	Now that you have a basic concept of muscle fibers and energy down, we can now explore what			
4	type of pull-	-up would be best for your work out. Keep in mind that pull-ups are one of the hardest		
5	exercises th	at you will do. Let's get started.		
6	1.	Assisted Pull-up		
7		The bar is 4 feet from the ground for people who couldn't do a pull-up. You sit on the floor,		
8		extend your arms to the bar and pull your chin over the bar leaving their feet on the floor.		
9		This method reduces the weight being pulled up by 40 to 50 percent. It's tougher than it		
10		sounds, but it can be your first step to doing a real pull-up. You can also do this with a pull-		
11		up/dip bar machine using the dip bars as your assisted pull-up bars. (4)		
12	2.	Lat Pull downs		
13		This exercise is basically the same as a pull-up except it is done with a machine that you can		
14		find in most weight rooms. Simply sit under a hanging bar attached to a stack of weights		
15		and pull the bar just below your chin. It is best to choose a weight that is roughly 40 to 50		
16		percent of your body weight. Do as many repetitions as you can for a least three sets. (4)		
17	3.	Negative Pull-ups		
18		This is the last step in accomplishing your first pull-up, or doubling your present maximum.		
19		It is also the way to build your endurance for the flexed arm hang. Hold yourself in the		
20		flexed arm hang position for 10 seconds, then you must fight gravity and slowly lower		
21		yourself down to the count of five seconds. (4)		
22	4.	Pull-up		
23		Grab a bar with a grip slightly wider than shoulder width, with your hands facing away from		
24		you. Hang all the way down. Pull yourself up until your chin is above the bar. Slight pause.		

1	Lo	ower yourself all the way back down. Go up, and really concentrate on isolating your back
2	ar	nd biceps. Don't swing.
3	0	nce you can do a single pull up, work on doing them in sets. Do one pull-up, then wait a
4	m	inute or two and do another one. Wait a few more minutes and do another one. A few
5	da	ays later, try to do two in a row, and do a few sets of two. You need to start somewhere,
6	bı	ut as soon as you can do one, you can find a way to do two. After that, find a way to do
7	th	ree, and so on. This Pull-up works out the back, biceps, shoulders and chest. (5)
8	5. Cl	nin up and Neutral-Grip Pull-up
9	Sa	ame concept as a pull-up, but when you grab the bar, your hands are facing toward you.
10	Tł	nese pull-ups put more emphasis on the biceps. (5)
11	I have now sh	own you five different ways to do a pull-up. Just remember to do your pull-up routine only
12	three days a w	veek. Good luck with your quest to become a healthier you.

- 1 Works Cited:
- 2 1. Pull-upszone.com
- 3 2. Anatomy and Physiology, second edition, Maritn/Nath
- 4 3. Acebrandsports.com
- 5 4. Military.com
- 6 5. Nerdfitness.com



Work Sample Evaluation

Subject Area: Anatomy

Task Title: The Power of Exercise

Student Work Sample Title: The Perfect Pull-up

The document was scored using the CCR Task Bank Rubric. The final scores are indicated in the following chart.

Scoring Criteria	Insufficient Evidence	Developing	Progressing	Accomplished	Exceeds
Research and Investigation			x		
Ideas and Content		х			
Reading and Analysis			х		
Communication			x		
Organization			x		
Accuracy			x		

College and Career Readiness Task Bank



Annotations: The following evidence from the work sample and the reviewer's comments support the scores above. Page and line numbers refer to the original work sample.

Scoring Criteria	Page #	Line #	Commentary about the work sample	
Research and Investigation: Locating resources	6	2-6	Five sources were used in the work sample. While one of these is a textbook, the other four are Intersources. None of the sources are from a credible journal.	
independently and/or identifying information within provided texts				
Ideas and Content:	2	2-11	The student does provide a good description of muscles.	
Presenting a thesis and	2	13-22	The work sample provides a good description of the muscle structure.	
understanding concepts	3	14-19	The work sample also provides a good description of ATP.	
Reading and Analysis: Evaluating sources and	4-5	6-10	The student had to analyze information from websites in order to explain how to do the various exercises.	
selecting evidence to support the central idea				
	1	2-11	The student used all proper names of muscles in their work sample.	
Communication: Using subject-appropriate	1	2-11	While the student used the proper terms "flexes/extends" they failed to use other acceptable anatomical terms.	
language and considering audience	2-3	24-2	While the work sample refers to H, A, and I bands and Z lines, there is no description of what they are.	
	3	4	The student refers to sarcomeres and myofibrils without first describing what they are.	
			No thesis statement is present; the student just jumps right into describing the muscles involved in the selected exercise.	
Organization: Structuring main ideas and supporting information			The student begins their paper with the type of muscles involved in the exercises, but makes very little connection between these muscles and the exercises that are described at the end of the paper.	
supporting injormation	3	13-14	The student does provide a good transition from muscle contraction to muscle energy by using ATP as the link.	
Accuracy:	2	6-11	The sentences in this section are either fragments or run-on sentences.	
Attending to detail, grammar, spelling,	6	2-6	The citations on the Works Cited page aren't properly cited. They lack details that would lead the reader to the correct place where the student found the information.	
conventions, citations, and formatting			There are some other minor grammatical errors strewn throughout the paper.	