Ν	а	m	۱e	

Use the words to the left to fill in the passage about sliding filament theory below.

	You want to take a step forward. Your	_sends out a			
Actin	message called anto your b	oody. That			
Action Potential	message travels down a	into the			
Acetylcholine (ACh)					
АТР	place where it connects to the muscle fiber called the				
Brain	At this point, the				
Calcium +2	neurotransmitter chemical called	is			
Contraction	released. This chemical causes a message to travel across the				
Crossbridge	and through the				
H-Zone	Stored	ions			
Myosin					
Myosin Binding Sites	which have been at rest in the				
Myosin Heads	released into the Calcium ions attach to				
Neuromuscular Junction	the troponin changing its shape. The change in shape moves the				
Neuron	This exposes the				
Power Stroke	The				
Sarcolemma	can now attach. This				
Sarcomere	attachment is called the The sarcomere				
Sarcoplasmic Reticulum					
T-Tubules	uses from glycogen to cock the myosin				
Tropomyosin	heads back and push them forward. This action is called a				
	This action slides the				
	past the sho	ortening the			
	z-lines and hence the sarcomere also shortens. In doing so the				
	practically disappears. This proc	_ practically disappears. This process allows			
	of the gastrocnemius and you can step forward.				