

Being Active and Using the Passive

A Passive Voice Exercise based on Wendy Suzuki's Talk

"Exercise and the Brain"

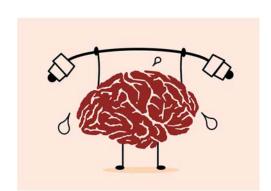
https://www.youtube.com/watch?v=LdDnPYr6R0o

Before You Watch

Discuss

Discuss the following questions in groups or as a class.

- 1. What is physical *exercise*? What different kinds of exercise are there? Which is your favorite? Why?
- 2. How do you think exercise might affect the brain?
- 3. Do you think it would affect your learning if you spent the first 5 minutes of your classes exercising? In what ways?



Vocabulary Preview

Circle the correct definitions.

- 1. cognitive
 - a. difficult
 - b. unique or unusual
 - c. related to thinking or understanding

2. fitness

- a. a piece of equipment in a science lab
- b. one's level of physical strength or stamina
- c. one's level of motivation

3. aerobic

- a. thick
- b. related to air travel
- c. related to heart and lung strength

4. benefit

- a. advantage
- b. academic intelligence
- c. an increase in pay

5. cells

- a. the smallest parts of a living body
- b. exercises that strengthen the body
- c. small quizzes that a teacher gives to students

- 6. enhance
 - a. improve
 - b. motivate
 - c. decrease
- 7. decline
 - a. increase
 - b. decrease
 - c. stay the same
- 8. the elderly
 - a. children
 - b. students
 - c. people who are old
- 9. creativity
 - a. patience
 - b. the ability to work fast
 - c. the ability to use one's imagination
- 10. the bottom line (idiom)
 - a. the floor
 - b. the most essential point
 - c. the last person in line



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2 After You Watch

Watch Wendy Suzuki's talk "Exercise and the Brain" and take notes (https://www.youtube.com/watch?v=LdDnPYrGROO). After you watch, answer the questions below. Watch the video again (and consider turning on the captions) if necessary. You might also want to stop the video, discuss certain points, consult a dictionary, etc.

a.	Which elements of the	brain are affected	by exercise?	Check (✓)	the answers.

cortex	hippocampus	neurons
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b. According to Prof. Suzuki, which abilities are helped by exercise? Check (✓) the answers.

1. cognition	2. <u>learning memory</u>	3. <u>creativity</u>	4. patience and persistence	
It is improved by exercise.				
It might be improved by exercise.				
lt was not discussed.	It was not discussed.	It was not discussed.	It was not discussed.	

3 Language Focus: The Passive Voice

Part A. First, review Section 5 (Using Passive Voice) in the *Developing Details* card. Then, in each sentence below, identify the bolded verb as either *active voice* or *passive voice*. Circle your answers. The first two have been done as examples.

1.	Wendy Suzuki went to college at UC Berkeley.	Active	Passive
2.	She was taught by Dr. Marian Diamond.	Active	Passive
3.	Dr. Diamond was a well-known researcher of the brain.	Active	Passive
4.	Wendy was first inspired to become a neuroscientist by Dr. Diamond.	Active	Passive
5.	Later, Dr. Suzuki took an exercise class called "Intensati" at her gym.	Active	Passive
6.	The Intensati classes were led by Patricia Moreno.	Active	Passive
7.	In Intensati classes, yoga, dance and kickboxing are combined with shouting motivational statements such as "I am strong!"	Active	Passive
8.	Dr. Suzuki was motivated by these classes and also noticed that she was able to write more easily after her workouts.	Active	Passive
9.	She wanted to motivate her own students in the same way.	Active	Passive
10.	She also wanted to study whether academic performance is improved with exercise.	Active	Passive
11.	She found that exercise improves cognition and memory.	Active	Passive
12.	It has not yet been shown how exercise affects creativity, but this relationship is being studied now in Dr. Suzuki's lab.	Active	Passive
13.	Dr. Suzuki will not be surprised if she finds a strong connection between aerobic exercise and enhanced creativity.	Active	Passive

Finally, for each of the passive constructions above, circle the past participle and underline all forms of the verb *BE*.

Example: She was taught by Dr. Marian Diamond.

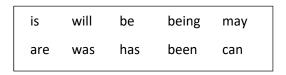
Part B. Complete the sentences with the verbs from the box. Use the past participle form of the verb in order to form the passive voice. The first one has been done as an example.

follow	produce	engage
call	tell	raise

1	The outer	covering	of the	hrain is	called	the cortex.
т.	THE Outer	COVELLING	or the	Dialli 13	cuileu	the cortex.

- 2. When rats **were** ______with lots of toys and companions, their cortexes were thicker.
- 3. In Dr. Suzuki's classes, a 1-hour workout **is** ______ by a 1.5-hour lecture.
- 4. The students laughed nervously when they **were** ______ that they were going to have to yell positive affirmations in class.
- 5. The students were _____ and asked lots of questions.
- 6. New cells **are** _____ in our hippocampus due to exercise.

Part C. Complete the sentences with the words from the box. Words may be used more than once. Some items may have more than one correct answer. The first one has been done as an example.



1. The birth of new cells <u>is</u> **enhanced** by aerobic exercise.



- 2. Creativity and imagination _____ supported by the hippocampus.
- 3. If the hippocampus _____ damaged, one's ability to imagine new situations _____ harmed.
- 4. It _____shown that exercise benefits memory in the elderly population.
- 5. Creativity _____ improved by exercise.
- 6. Exercise's impact on creativity _____ measured.
- 7. This impact _____ currently _____ researched in Dr. Suzuki's lab.
- 8. This research ______ begun last year by Dr. Suzuki's team.

4 Writing

Write about one or more of the following topics.

- 1. How are *you* affected by exercise? Is your attention, energy or mood affected? Describe your observations.
- 2. Should classroom instruction/language instruction include exercise? If so, how should it be included?
- 3. How is your learning affected by other factors? For example, is your ability to succeed in school impacted by your home life? By your job? By your personal relationships? By the amount of sleep you get? Explain.

Hot Tip

- Notice the verb tenses in the questions. Are they passive or active?
- Before you begin writing, review Section 5 in your Developing Details card to help you use the passive voice appropriately and correctly.

