Your Amazing Brain

By: Douglas A. Richards

You carry around a three-pound mass of wrinkly material in your head that controls every single thing you will ever do. From enabling you to think, learn, create, and feel emotions to controlling every blink, breath, and heartbeat - this fantastic control center is your brain. It is a structure so amazing that a famous scientist once called it "the most complex thing we have yet discovered in our universe."



Your brain is faster and more powerful than a supercomputer.

Your kitten is on the kitchen counter. She's about to step onto a hot stove. You have only seconds to act. Accessing the signals coming from your eyes, your brain quickly calculates when, where, and at what speed you will need to dive to intercept her. Then it orders your muscles to do so. Your timing is perfect and she's safe. No computer can come close to your brain's awesome ability to download, process, and react to the flood of information coming from your eyes, ears, and other sensory organs.

Your brain generates enough electricity to power a light bulb.

Your brain contains about 100 billion microscopic cells called neurons - so many it would take you over 3,000 years to count them all. Whenever you dream, laugh, think, see, or move, it's because tiny chemical and electrical signals are racing between these neurons along billions of tiny neuron highways. Believe it or not, the activity in your brain never stops. Countless messages zip around inside it every second like a supercharged pinball machine. Your neurons create and send more messages than all the phones in the entire world.

Skill –	Reading	Compre	hension

Name:	
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Neurons send information to your brain at more than 150 miles per hour.

A bee lands on your bare foot. Sensory neurons in your skin relay this information to your spinal cord and brain at a speed of more than 150 miles per hour. Your brain then uses motor neurons to transmit the message back through your spinal cord to your foot to shake the bee off quickly. Motor neurons can relay this information at more than 200 miles per hour.

When you learn, you change the structure of your brain.

Riding a bike seems impossible at first. But soon you master it. How? As you practice, your brain sends "bike riding" messages along certain pathways of neurons over and over, forming new connections. In fact, the structure of your brain changes every time you learn, as well as whenever you have a new thought or memory.

Exercise helps make you smarter.

It is well known that any exercise that makes your heart beat faster, like running or playing basketball, is great for your body and can even help improve your mood. But scientists have recently learned that for a period of time after you've exercised, your body produces a chemical that makes your brain more receptive to learning. So if you're stuck on a homework problem, go out and play a game of soccer, then try the problem again. You just might discover that you're able to solve it.

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Read the story. Use the information in the story to answer the questions below.

- I. Your brain has the ability to download, process, and react to information coming from A. The basic movements part of the brain B. A supercomputer C. Your eyes, ears, and other sensory organs D. Microscopic cells _____ are microscopic cells that create and send information to your brain. A. Brains B. Brain cells C. Neutrons D. Neurons 3. The sensory neurons in your skin relay information to ____ on the way to the brain? A. The spinal cord B. The brain C. The foot D. The head 4. What happens every time you learn something new or have a new thought or memory? A. It gets harder to remember B. The emotion part of the brain is triggered C. You will always forget it D. The structure of your brain changes 5. What should you do if you are having a hard time learning?
 - A. Get up and exercise
 - B. Give up
 - C. Raise your hand
 - D. Don't worry about it

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ANSWER KEY

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