

Human: The World Within

Episode #1 - React

Name: _____

Date: _____

- 1) What does the Nervous System do?
- 2) What specialized cells make up the nervous system?
- 3) How many Neurons are in the brain?
- 4) How do signals get from the eyes to the brain?
- 5) How many pulses does the eye send to the brain every second?
- 6) How do neurons in the brain communicate?
- 7) Your brain's ability to change and adapt is called?
- 8) What region of the brain controls fear?
- 9) What is it called when the fear response takes total control of the body?
- 10) What is the purpose of the spinal cord?

Human: The World Within

Episode #1 - React

11) How does the body protect the spinal cord and brain?

12) Why is pain a good thing?

13) What causes your feet to go to sleep?

14) What is the cause of "Phantom Pain?"

15) What makes it possible for Jason Little's prosthetic arm to communicate with his brain?

Human: The World Within

Episode #1 - React

* Answer Key

- 1) Perceives the world and tells the body how to react to it.
- 2) Neurons
- 3) 100 Billion
- 4) Optic Nerve
- 5) 10 Million
- 6) Electricity and the release of chemicals
- 7) Neuroplasticity
- 8) Amygdala
- 9) Amygdala Hijack
- 10) Allows the brain to talk to every organ and muscle in the body.
- 11) Thick bone and suspended in fluid to absorb shock.
- 12) Pain is your nervous system telling you something is wrong.
- 13) Pinched Nerve
- 14) The brain is trying to communicate with the lost nerves.
- 15) Neuro Stimulator