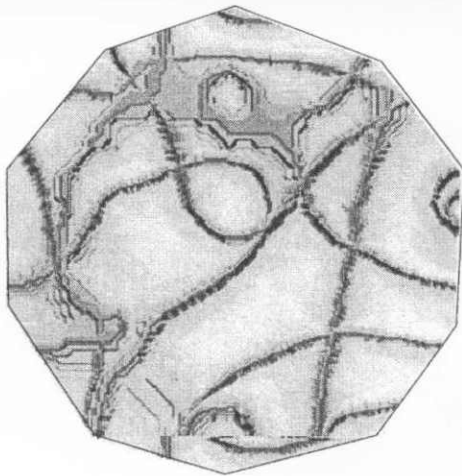


**MODULE
THREE**



**THE BRAIN'S
BUILDING
BLOCKS**

A crossword puzzle grid with 33 numbered starting points for words. The grid is filled with white squares for letters and black squares for empty space. The numbers are: 1 (down), 2 (across), 3 (across), 4 (across), 5 (down), 6 (across), 7 (across), 8 (across), 9 (down), 10 (across), 11 (across), 12 (across), 13 (across), 14 (across), 15 (across), 16 (across), 17 (across), 18 (across), 19 (across), 20 (across), 21 (across), 22 (across), 23 (across), 24 (across), 25 (across), 26 (across), 27 (across), 28 (across), 29 (across), 30 (across), 31 (across), 32 (across), and 33 (across).

across

- 3 single extension of the neuron that carries signals to other neurons.
- 5 neurons do not have the capacity to _____.
- 7 procedure which allow transplanting of fetal tissue to a patient's brain
- 10 sensation in an amputated limb is called _____ limb
- 11 neurons which carry information from the spinal cord
- 12 surrounds and insulates the axon.
- 15 in resting state, inside of membrane has a _____ charge
- 16 carries information between body and spinal cord and regenerates.
- 17 system containing the brain and spinal cord.
- 21 structures at the end of the axon that contain neurotransmitters.
- 22 neurons which carry information to the spinal cord
- 23 drug which blocks receptors on muscles and causes paralysis
- 25 connect sensory and motor neurons
- 26 problem of how images and thought relate to the brain.
- 28 _____ ganglia in Parkinson's disease lose dopamine
- 30 neurotransmitters flow across synapse & effects the _____ on the neighboring membrane (if the key fits the lock)
- 31 animal has the ability fo develop new neurons.
- 32 neurotransmitter; similar to THC in marijuana
- 33 part of the neuron that recieves signals.

down

- 1 automatically withdrawing your hand after touching a hot object
- 2 nerves make up the _____ nervous system.
- 3 rush of sodium ions to the inside of the axon; _____ potential
- 4 if neurotransmitters block the receptor's locks
- 6 cocaine blocks the process called _____
- 8 on the axon; keep ions outside or inside
- 9 brain cell that supports and insulates neurons.
- 10 in resting state, outside of membrane has a _____ charge
- 13 space between neurons.
- 14 _____ pump; responsible transporting sodium ion to outside of axon
- 18 ready to conduct, but not conducting
- 19 brain cell specialized for receiving and transmitting information.
- 20 in resting state more negatively charged _____ ions on the inside
- 22 in resting state more positively charged _____ ions on the outside
- 24 if neurotransmitters open the receptor's locks
- 26 drug which mimics norepinephrine and causes hallucinations
- 27 once an action potential is triggered, others are triggered down the entire length of the axon; the _____-or-none law
- 29 part of the neuron that keeps it alive and functioning.