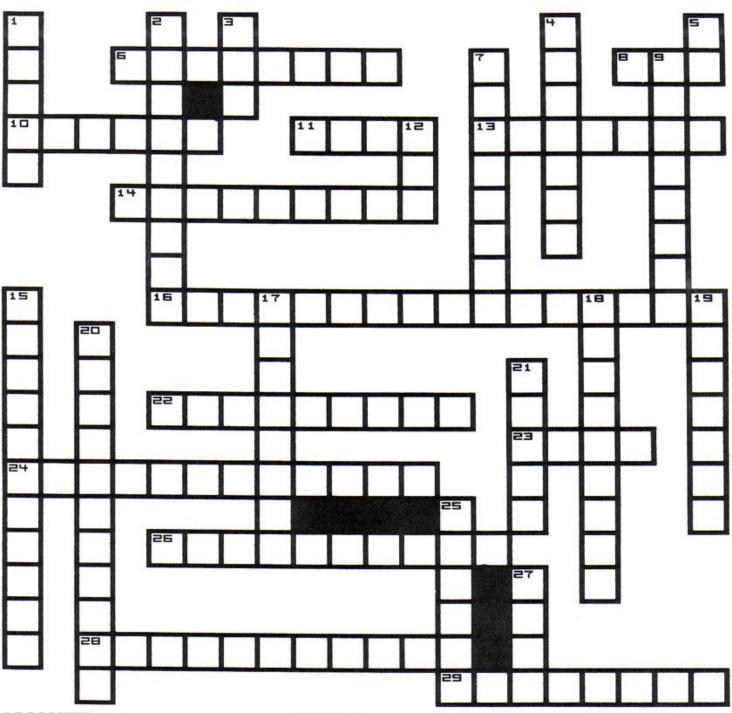
Action Potential Puzzle



ABSOLUTE
ACTION
ALLORNOTHING
CA+
CHANNEL
CLEFT
DEPOLARIZED
DOPAMINE
EPSP
EPINEPHRINE

GRADED
IPSP
K+
LOCAL
NA+
NEUROTRANSMITTER
PAD
POLARIZED
POTENTIAL
PUMP

RELATIVE
REFRACTORY
RECEPTOR
RESTING
REPOLARIZED
SEROTONIN
SYNAPSE
THRESHOLD
VESICLES

Action Potential Puzzle

ACROSS CLUES

- 6. During the _ During the ____ refractory period an impluse may be triggered by a stimulus of high intensity.
- The ion in presynaptic terminal that causes the synatic vesicles to release neurotransmitters.
- 10. The all or none potential that travels down the axon is called potential.
- 11. The Na+K+ returns the
- resting membrane ion balance.
 13. The space between the presynaptic terminal and the postsynaptic terminal of two neurons.
- 14. The resting membrane condition where the the outside is + and the inside is - is called
- The chemical that carrries a nerve impulse across the synapse
- The difference in electrical charge between two points is called the difference.
- 23. A local potential that causes the depolarization(excites) of a membrane is called a
- 24. If a nerve response at all, it responds completely. 3 words.
- Period following a nerve impulse in which an ordinary stimulus will not trigger a response.
- A excitatory neurotransmitter that is also a stress hormone released from the adrenal gland.
- A neurotransmitter in the brain that is released from the pleasure center.

DOWN CLUES

- Type of potential that is caused by a stimulus to a cell membrane that is graded. (EPSP OR IPSP)
- An inhibitory neurotransmitter in the brain that regulates the amount of sensory information.
- Ion responsible for depolarizing the cell membrane when it enters due to an EPSP neurotransmitter.
- A passage way through a protein that allows a particular ion enter the cell
- Ion that immediately restores the electrical conditions of the cell membrane after depolarization.
- Snyaptic contain neurotransmitters.
- The refractory period that allows not even a strong stimulus to cause a response in the cell.
- 12. This word is necessary to fit in pump so it is a ___.
- When in response to a stimulus the membrane becomes less negative it is said to be
- 17. A protein located in the cell membrane that receives a neurotransmitter.
- The point at which a stimulus is strong enough to produce a action potential.
- The membrane potential of a cell that is polarized.
- When a cell is depolarized, it must be to return to resting membrane potential.
- 21. The space between two neurons is
- called the synaptic 25. A potential tha may be of a varied strength depending on the stimulus.
- A local potential that causes a hypepolarization (inhibiting) of the cell membrane. (abbr)