Brainy Word Search Puzzles

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Neuroscience for Kids http://faculty.washington.edu/chudler/neurok.html



Parts of the Brain

FOREBRAIN MIDBRAIN HINDBRAIN DURA **BRAIN** CEREBRUM CEREBELLUM CORTEX BRAINSTEM HEMISPHERE **HIPPOCAMPUS PINEAL MEDULLA** H PONS

Parts of the Nervous System

|CENTRAL

PERIPHERAL AUTONOMIC ISOMATIC SYMPATHETIC **ENTERIC** MUSCLE VISCERA CEREBRUM

Lobes of the Brain

PARIETAL TEMPORAL LOCCIPITAL FRONTAL IGYRUS SULCUS l GYRL SULCE HEMISPHERE FISSURE | PHINEAS BROCA WERNICKE PERCEPTION ISENSORY N MOTOR ASSOCIATION

Cerebral Cortex

R

PARIETAL LOBE TEMPORAL OCCIPITAL LIMBIC FRONTAL **GYRUS** ISULCUS LOBOTOMY

Brain Coverings

 I P R O T E C T I O N F D Z M

 O H A I R R Y J R G D T A X C

 W A G D B D Z H N U D G Z R R

 X R S P I N D D Z S E G O T O

 O U Y U Q O H Z T K W U L O S

 G D L J Z S N I J U E N O B I

 F F Y Y Z P E H R L Y S V Q T

 B H Q N I K S G C L Y N S B I

 I Y S Q K P A X N A M D N P G

 J P Z K I L X O M I R P V U N

 L Z H A X G G R Q V N A W I I

 Y Q V A I M X K P H Y E G O N

 F D B L Q M M V T W O A M O E

 I G B N Z V R A N F J U V R M

MENINGES
HAIR
SKULL
BONE
DURA
PIA
SKIN
ARACHNOID
FLUID
PROTECTION
MENINGITIS

Spinal Cord

E M Q B D L E A R B E T R E V
L W R Q J T U I J N V Y F G Q
A U P F F E E M X H S B T V Y
E K A X B V U F B E E F W W K
G V R T Z U F C N A Q J A S A
Y G A H C A N S B T R B Q A M
C E L O O X O R L L S G C L O
C N Y R F R U A E A R E Y T V
O O S A Y Y J E O F R D P A E
C B I C U F V P Z V L C Y Y M
N K S I D R J H I A T E A F E
T C J C E I A C X E F C X S N
C A R N K I A O X H Y Q A B T
E B V K Q L N H K M W E V R G
L N A S W I E F V R R A S U T

THORACIC
LUMBAR
SACRAL
COCCYGEAL
VERTEBRAE
BACKBONE
PARALYSIS
NERVE
AXON
REFLEX
TRACT
MOVEMENT
SENSORY
ATLAS

Directions/Planes of Section

DORSAL VENTRAL G ANTERIOR POSTERIOR ROSTRAL CAUDAL MEDIAL LATERAL **IPSILATERAL** INFERIOR SUPERIOR PROXIMAL DISTAL CORONAL FRONTAL SAGITTAL

The Neuron

E B R S O M A E Z J A X O N D S V N R Y M Y E L I N P V Z G U O N E A R W A S A U U V G T B N K P U L A E I I M F J S H Z F I G P R O L J L F Z I Y R U Q H P M H O P O G V F X N E V Y E W O E S T I P Q B K A S V Q T C X L S E O B I T A P H B G I N D H A S L X M T I S O Q D R H D I J R A C I D L E L T G D U P S M O H G I C Y U D T N N R Z T N Z Z N E S A E M T M E E D O N X E Z B S E S J O Z D P O R S U E L C U N V Q T S V J E Y M S A I P O T Y C

CYTOPLASM VESICLES: NEUROTOXIC ITHRESHOLD **I** GLIA MYELIN UNIPOLAR MULTIPOLAR NODE AXON DENDRITE SYNAPSE IMESSAGES ISOMA NUCLEUS BIPOLAR

Synapse

 Y A G O N I S T V P L N W I T P A N Y S E R P R

 P A V C I T P A N Y S E R P R

 J P M E S S A G E S C Q A P E SYNAPSE

 N C W F R S A Z P B H T N H C

 M I A P N P N O X A V T U E

 Z F G T A P C U R S O C A H P

 PRESYNAPTIC

 S R W D R A N S V A S R O E O

 AGONIST

 RECEPTOR

 ANTAGONIST

 D F M P N U S Y E A G T I I N

 L H F A V I U L S O N P S R X

 E Z G K C L C E L T W Y T D H

 S W R L T U M R V V S Y S N T

 S R E U N Z W H M C N O F E B

 Z L A O R Y V Z H F T N P D Q

Ventricles

U E L V B F K C U Y A H K I F CSF VENTRICLE F H E N U S N B H Q O S P X VENTRICLE FLUID LATERAL THIRD FOURTH AQUEDUCT CISTERN

A M R C K V L E I E C P D C R CHOROID FORAMEN VILLI BUOYANCY HYDROCEPHALUS PROTECTION

B X F J O G U B J E I F U O F PROTECTION

Y P O W H D K R X W E A B O S T H Y P F Q D A M S I L L I V C V S U L A H P E C O R D Y H L U J D R I H T V V Y Z Y K Q

Action Potential

C N M I L L I V O L T T L Y Y CHANNEL
E O K Y A M G P L N C U Z M C
A V H P U U M Y T O B X E Y H
E I E I S U W I Q I T T S D A
F L D D P P M K B T M H N N N
P O A L O P I C F A E M O O N
S O F I U R V K E Z M T P C E
MILLISECOND
S T B T L T C T D E I B F S E L
I C S A A N I C S R R I E S N
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
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M E V N S R E Q E A A S R I F
M E V N S R E Q E A A S R I F
M E V N S R E C C K L G
M THRESHOLD

Cranial Nerves

F O Z D T R I G E M I N A L K OLFACTORY OPTIC OCULOMOTOR F M S S Q L K O I D F T N Z Y TROCHLEAR TRIGEMINAL ABDUCENS FACIAL VAGUS ACCESSORY HYPOGLOSSAL OX K U A C J L P B V E D O X S K H U W V T T O W A A T M A S G A R T C I O Q S D R D O D E I G G G B A X F X B Y A A X U L C G J L R I A H G P Q C L C A A G Z P I H P J S G Q V N O M

Neurotransmitters

O E N I R H P E N I P E R O N
M A X C O H S G G R W P K T R
H S C E T A M A T U L G Q E O
X E F E Q E B N Q Q E I E N B
R E N Y T A T S L N O N L K M
C T Z I P Y I Q I E I J N E J
N A G X N C L M Q R D I Z P D
I T G L P O A C H U C C A H O
H R V H Y T T P H O X I F A P
P A H U S C E O T O F P L L A
R P M I C N I Y R W L H P I M
O S H G I M X N H E X I M N I
D A S P R O F B E Y S X N A N
N N E W N U R X G Y Q G Q E E

DOPAMINE
SEROTONIN
EPINEPHRINE
NOREPINEPHRINE
ACETYLCHOLINE
GABA
HISTAMINE
GLYCINE
GLUTAMATE
ASPARTATE
ENKEPHALIN
ENDORPHIN
OXYTOCIN
DYNORPHIN

Neurotoxins

B B K H I U N I X O T O N O C

J K A I Y E G M V N I M A P A

N I G T V C P Y I L F P M B J

I I L O R Q K W L D Z E A E N

X N R A N A B J T U C N C V I

O N I R T Y C N R I I C U E X

T K I X T R A H G X K R L T O

O U X X O X O U O E G O O O T

D K N R O T A T T T X T T X O

B F H T N T O X O O O O O I R

Y K U E O R O I U X X X X N B

R M W X D D O G R Y I I I O O

A L I N O B W V A E N N N N C

H N E I A H N X N P B K W Y J

C D S A X I T O X I N I F L T

AGOTOXIN
APAMIN
BATRACHOTOXIN
BEVETOXIN
CHARYBDOTOXIN
CIGUATOXIN
CONOTOXIN
CROTOXIN
DENDROTOXIN
GONYAUTOXIN
IBERIOTOXIN
LATROTOXIN
MACULOTOXIN
SAXITOXIN

Drugs of Abuse

M Q R K L M U S H R O O M S B
B I K E S T U B N Y R E C G D
C X N J D A S I C O K A E E O
E O B N S A C H H D F N P P S
T F C U I O C Y B F I R A S T
A J G A L C P C E M E G N I I
R A A I I N O I A S B U A L M
U G S Y O N N T S X E H U O U
T P M L B E E A I F F D J C L
I Q W Y U H N D R N J K I Y A
B C R X P T K G E K E X R B N
R X U M L O H O C L A W A I T
A N A K Y S A T S C E J M N O
B Q C R X Y I N H A L A N T P
K T O N T I N I O R E H L D J

B ALCOHOL
AMPHETAMINE
CAFFEINE
MARIJUANA
SINHALANT
COCAINE
BARBITURATE
NICOTINE
MROHYPNOL
ECSTASY
LSD
LSD
LSD
LSTIMULANT
HEROIN
DEPRESSANT
PSILOCYBIN
MUSHROOMS
OPSILOCIN

Brain Fitness

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SEATBELT
INJURY
PROTECTION
CONCUSSION
HELMET
BICYCLE
SAFETY
SPORTS
DIVING
EQUIPMENT
NUTRITION
BRAIN
SPINAL
ACCIDENT

Brain Imaging

NEURON SCAN IMAGING XRAY FILM POSITRON **EMISSION** ITOMOGRAPHY GAMMA OXYGEN BLOOD RADIOACTIVE MAGNETIC RESONANCE RADIO D ANGIOGRAPHY

Senses

IAUDITION SMOOTH 8 **BITTER** ROUGH BRIGHT SOUND COCHLEA SOUR COLOR SWEET EAR HOT EYE COLD HEARING TASTE LOUD SOFT NOSE PAIN PRESSURE QUIET RECEPTOR SALTY SIGHT 8 SMELL

Vision

IRIS RETINA CORNEA PUPIL LENS RODS CONES ASTIGMATISM MYOPIA **HYPEROPIA** VISION Ε FOVEA CHIASM COLOR LIGHT SIGHT OPTIC **BIPOLAR** G GANGLION B W

Hearing

A N L Y C N E U Q E R F K Z T BA HE U D D J R L O U D N E S S T P I CC A E M D C S E U M M U Q W W O N INC BE A M D C S E U M M U Q W W O N INC BE A M D C S E U M M U Q W W O N INC BE A M D C S E U M M D U Q W W O N INC BE A M D C S E U M M M U Q W W O N INC BE A M D D C S E R P S I I P BA M D C S E R D S I I D D C S E R D S I I D C N D S D C S E R D S I I U W D C S T D C

BALANCE HEARING COCHLEA **EARDRUM** MALLEUS INCUS LOUDNESS PITCH BASILAR MEMBRANE STAPES DECIBEL TINNITUS AUDITION LOUD QUIET WHISPER NOISY PINNA FREQUENCY SOUND

Touch

EPIDERMIS 0 HAIR **FOLLICLE** Ε PAIN PRESSURE STIMULI G RECEPTOR S KXUU DERMIS VIBRATION NOCICEPTOR SKIN TOUCH HEAT COLD SOMATOSENSORY E N S

Smell

COLFACTION **EPITHELIUM** CILIA RECEPTOR ODOR G NOSTRIL MITRALCELL LIMBIC IMEMORY ANOSMIA 0 SMELL INOSE AMYGDALA HYPOTHALAMUS HIPPOCAMPUS V

Taste

X T O F L M A K J A R K G E W
B O E K H T D M A E W O R H Y
X N C S I T I G C V J I P H T
W G K T B D E E D N Y D J K L
N U T B F U P E N K V M P S A
K E L Q S T R O W L O B L A S
E J M I O E I C V S P V G L O
P Y A R T T M U R Z B K Q I D
T I S T A P Z A F X E U J V C
J G I T Y P A Y Y U T Z Z A O
T B S J I I H H V F W F Y J M
N U A T A P Q B L K N F D J O
G H V L T S O U R U O Y Z Y P
Z D U B E T S A T N Y C F N Y

SWEET
SOUR
BITTER
SALTY
TASTEBUD
TONGUE
SALIVA
RECEPTORS
GUSTATION
AGEUSIA

Pain

M Z I U C I S E G L A N A B P
V S R F K U G D Q N N V V R K
D B F O Z N I R I P S A O K C
U Z P Q T I D C H I G S N J A
R A W E G P I E S C T A I E B
E U N E C A E O W A U Q H N D
C A T E S N N C G J N V P K E
E Y I P S P A L I I T Q R E E
P Y A R Y T A T D C W C O P F
T C L H T N H G S E O R D H O
O V P D D X D E U B W N N A I
R O P I A T E S T O U A E L B
F M N W Z W L T S I X S H I L
L I D O C A I N E Z C I E N Y

ACUPUNCTURE
HYPNOSIS
NOCICEPTOR
PROSTAGLANDIN
ENDORPHIN
ENKEPHALIN
ANALGESIC
ANESTHETIC
CAPSAICIN
SUBSTANCEP
OPIATES
RECEPTOR
LIDOCAINE
BIOFEEDBACK
ASPIRIN

Sleep

BETA DELTA REM SLEEP THETA CIRCADIAN CLOCK **HYPOTHALAMUS** MELATONIN **HIBERNATION PINEAL** EEG SPINDLE DREAM **PONS** INSOMNIA

Movement

R B L U M O T O R C X U W E V MOV MUS NEL F Z D T O W D Q C N X A G E M FLE:
L P L S G X T A C S L C R T F EXT STR
E Z A T B Z E Z C U I E K J S REF
X D I R G M E L C C B Q Y F E MOT H R M E K H U S F E A Q V X Z CEF
R Y T T T I U S L Q F S T D G SACE
D G W C H M N L C L K E U E W ACE
B D Q H O U U S M L N G C W R
C F V R J M E N O S E F O T K
G A U F V L G O O N S F S H Y
H E U J N C R R D W S A F Q H
N T N E M E V O M W C L E V G
O A C E T Y L C H O L I N E M

MOVEMENT
MUSCLE
NEUROMUSCULAR
FLEXOR
EXTENSOR
STRETCH
REFLEX
MOTOR
CEREBELLUM
PARKINSONS
SACCADE
ACETYLCHOLINE

Memory

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LEARNING
MEMORY
CONDITIONING
STIMULUS
RESPONSE
REINFORCEMENT
AMNESIA
HIPPOCAMPUS
ALZHEIMERS
MAZE
SENSITIZATION
POTENTIATION

Language

W D P Y G W X O C H S X C J E E E E X Z T H A Z S E E D H B C R T U H Z K B P B C S L U A K N A Z O M R E A N J H A Z I N I C O W O E S A I V V N B X J C I A C C D N U F F T G K E I K N A H R I E B B G O U U L C E U O O M H Z Y Q I X A M S E W M W O L O N U S F X G A Y I Q M D K A P L N P W V E Z D N G O Y C Z I H B K Y A E Y F W N C B N U H A M J Q A S G A V B X E R E H P S I M E H V R X L A T E R A L I Z A T I O N F K A I S A H P A S I V I D V 7

LANGUAGE
LATERALIZATION
SPEECH
WORDS
COMMUNICATE
HEMISPHERE
DOMINANCE
BROCA
WERNICKE
APHASIA
DYSLEXIA

Blood Brain Barrier

LIPID PINEAL SUBFORNICAL

BLOOD **BRAIN** BARRIER PERMEABLE **ENDOTHELIAL** PROTECTION CAPILLARIES MOLECULES CHARGE

Nutrition and the Brain

QNG

DIET VITAMINS **MINERALS** FUEL GLUCOSE NUTRIENTS **PROTEIN** FATS lenzymes. HORMONES CHOLINE TRYPTOPHAN

Neurological/Mental Disorders

SCHIZOPHRENIA DEPRESSION TOURETTE **PARKINSONS** CANCER STROKE LYME PALSY **PARALYSIS** INSOMNIA **APHASIA PHOBIA** AUTISM CONCUSSION HEADACHE DEMENTIA

Careers in Neuroscience

PSYCHIATRIST NURSE DOCTOR TECHNICIAN NEUROCHEMIST PSYCHOLOGIST