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Vocabulary Builder Reference from...

Sam Rodriques: What we'll learn about the brain in the next century | TED Talk https://www.ted.com/talks/sam_rodriques_what_we_ll_learn_about_the_brain_in_the_next_century



Advanced Words Only

IMPORTANT

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Session 1: Word List

neuroscience

- the scientific study of the function, structure, and disorder of the brain and the nervous system
- (1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

physicist

- n. a scientist who specializes in the field of physics
- talented physicist,
 theoretical physicist
 tinstein was an outstanding and famous physicist of the 20th century.

motto

 a phrase or slogan that expresses a guiding principle or goal

synonym: slogan, catchphrase, phrase

(1) the **motto** for safe traffic, (2) company **motto**The company's **motto** is "Innovation and Service," which is reflected in its products and customer support.

neuron

 a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym: nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

MRI

- n. (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
- (1) MRI brain image, (2) cardiac MRI

The **MRI** machine uses powerful magnets to produce detailed images of the inside of the body.

electroencephalography

(also "EEG") a diagnostic medical procedure that involves the use of electrodes placed on the scalp to measure and record the electrical activity of the brain often used to assess and diagnose various neurological conditions

synonym: brain wave test, EEG, neural scan

(1) electroencephalography test, (2) abnormal electroencephalography

She is an **electroencephalography** technician skilled in performing EEG tests on patients.

slosh

 to move the liquid around, usually inside a container, with a splashing or slapping sound; to move clumsily through water or mud

synonym: splash, swish, slop

(1) **slosh** through the mud, (2) **slosh** a drink

The water **sloshed** over the edge of the bucket and spilled onto the floor.

pervasive

adj. spreading or existing throughout every part of a thing or place

synonym: extensive, ubiquitous, prevalent

(1) **pervasive** language, (2) the **pervasive** odor of garlic Suspicion and worry were **pervasive** in our minds.

preface

 an introduction or preliminary statement, particularly to a book or other written work, that provides context or sets out the author's purpose or perspective

synonym: introduction, preamble, prologue

(1) preface page, (2) book preface

The author wrote a powerful **preface** explaining their motivation for writing the book.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym: automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

recognizable

adj. easy to become aware of or identify synonym: noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark His car was easily **recognizable** in the parking lot.

Alzheimer

 a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym: dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

degenerate

 v. (of a person, animal, or plant) to become worse in health or physical condition

synonym: deteriorate, decline, decay

(1) **degenerate** into a disagreement, (2) **degenerate** into recession

The once-thriving city has **degenerated** into a crime-ridden slum.

pierce

- v. to cut or make a way through with a sharp instrument synonym: jab, penetrate, stab
- (1) **pierce** the armored shells, (2) **pierce** a mystery The extreme cold **pierced** our bones.

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis Inspectors noticed **microscopic** cracks in the submarine's hull.

hindsight

 understanding or knowledge that comes after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect

synonym: retrospect, afterthought

(1) **hindsight** bias, (2) 20/20 **hindsight**With **hindsight**, we can see that investing in that company was a mistake.

skeptical

adj. doubting that something is accurate or useful *synonym*: doubtful, distrustful, suspicious

(1) a **skeptical** attitude, (2) **skeptical** scientists

His religious and philosophical beliefs were utterly **skeptical**.

visionary

adj. having or showing exceptional foresight and imagination; not practical or realizable; speculativesynonym: prophetic, far-sighted, imaginative

(1) **visionary** business, (2) **visionary** ideas
The **visionary** leader had a clear plan for the company's future.

deregulation

 the process of reducing or removing government regulations and restrictions in a particular industry or sector, often to promote competition and reduce costs

synonym: liberalization

(1) deregulation of the economy, (2) aviation deregulation

The government's **deregulation** of the telecommunications industry led to increased competition.

explode

v. to burst or break open violently and noisily; to cause something to burst or break open

synonym: detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity The old building **exploded** in a fiery inferno.

typo

- n. a mistake made in typing or the reproduction of a textsynonym: error, mistake, misprint
- (1) full of **typos**, (2) **typo-free** resume I noticed a **typo** in the company's annual report, stating the wrong profit margin.

dorsal

- adj. located on the back, particularly the upper surface of an animal's body; related to or pertaining to the backsynonym: abaxial, spinal, back
- (1) dorsal surface, (2) dorsal root

The shark's **dorsal** fin is a distinguishing feature.

prefrontal

- adj. in or about the foremost part of the frontal lobe of the brain
- (1) **prefrontal** bone, (2) **prefrontal** region Research shows that damage to the **prefrontal** cortex leads

to increased aggression.

reorganize

v. to change to a more sufficient or suitable form of organization

synonym: rearrange, reconstruct, reshuffle

(1) **reorganize** a department, (2) **reorganize** his debts
The new CEO was appointed to **reorganize** their business.

medicinal

adj. of or relating to the treatment or cure of disease synonym: curative, therapeutic, healing

(1) medicinal chemistry, (2) traditional medicinal

The **medicinal** properties of this herb have been known to help with various ailments.

retrospect

 a review or analysis of past events, particularly to gain insight or understanding; a consideration of something that has already occurred or been accomplished

synonym: review, hindsight, contemplation

(1) **retrospect** review, (2) with hindsight **retrospect** In **retrospect**, I wish I had made a different decision.

amphetamine

n. a synthetic stimulant drug that affects the central nervous system, typically prescribed to treat conditions such as attention deficit hyperactivity disorder (ADHD) and narcolepsy, known to increase alertness, focus, and energy levels

synonym: stimulant, upper, speed

(1) **amphetamine** addiction, (2) **amphetamine-based** medication

The abuse of **amphetamine** can have serious and long-lasting health effects.

schizophrenia

 a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior

synonym: psychosis, disorder, mental illness

(1) **schizophrenia** spectrum disorder, (2) **schizophrenia** treatment

The **schizophrenia** patient was experiencing severe auditory hallucinations.

satirical

adj. characterized by the use of criticism that ridicules human folly, vices, or weaknesses through humor, irony, or sarcasm

synonym: mocking, ironic, sarcastic

(1) satirical article, (2) satirical humor

The satirical cartoon poked fun at the politicians in a clever

way.

dedicate

v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

synonym: consecrate, devote, commit

(1) **dedicate** a few hours, (2) **dedicate** a chapter to the subject

He **dedicated** his life to helping others.

Session 2: Spelling

after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect. 2. schnia spectrum disorder n. a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior 3. theoretical phst n. a scientist who specializes in the field ophysics 4. the branch of neunce n. the scientific study of the function, structure, and disorder of the brain and the nervous system 5. pie a mystery v. to cut or make a way through with a sharp instrument n. a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior 7. 20/20 hiht n. understanding or knowledge that come after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospects. adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of				
person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior 3. theoretical phst	1.	hiht bias	n.	understanding or knowledge that comes after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect
physics 4. the branch of neunce n. the scientific study of the function, structure, and disorder of the brain and the nervous system 5. pie a mystery v. to cut or make a way through with a sharp instrument 6. schnia treatment n. a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior 7. 20/20 hiht n. understanding or knowledge that come after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospects. 8. roc arm adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch occumputer science and engineering with	2.	schnia spectrum disorder	n.	person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and
structure, and disorder of the brain and the nervous system 5. pie a mystery v. to cut or make a way through with a sharp instrument n. a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior 7. 20/20 hiht n. understanding or knowledge that come after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect 8. roc arm adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch occumputer science and engineering with	3.	theoretical phst	n.	a scientist who specializes in the field of physics
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(robotics) the interdisciplinary branch of computer science and engineering with	7.	20/20 hiht	n.	understanding or knowledge that comes after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect
	8.	roc arm	adj.	(robotics) the interdisciplinary branch of computer science and engineering with

ANSWERS: 1. hindsight, 2. schizophrenia, 3. physicist, 4. neuroscience, 5. pierce, 6. schizophrenia, 7. hindsight, 8. robotic

9.	peve language	adj.	spreading or existing throughout every part of a thing or place
10.	talented phst	n.	a scientist who specializes in the field of physics
11.	dete a chapter to the subject	v.	to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
12.	M_I brain image	n.	(abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
13.	book pre	n.	an introduction or preliminary statement, particularly to a book or other written work, that provides context or sets out the author's purpose or perspective
14.	a theoretical concept in neunce	n.	the scientific study of the function, structure, and disorder of the brain and the nervous system
15.	to a recble degree	adj.	easy to become aware of or identify
16.	reoze a department	<i>v</i> .	to change to a more sufficient or suitable form of organization
17.	saal humor	adj.	characterized by the use of criticism that ridicules human folly, vices, or weaknesses through humor, irony, or sarcasm
18.	Aler's risk factors	n.	a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

ANSWERS: 9. pervasive, 10. physicist, 11. dedicate, 12. MRI, 13. preface, 14. neuroscience, 15. recognizable, 16. reorganize, 17. satirical, 18. Alzheimer

19.	exe in anger	ν.	to burst or break open violently and noisily; to cause something to burst or break open
20.	micic inquiry	adj.	tiny; exceedingly precise and detail-oriented; of or used in microscopy
21.	ampne addiction	n.	a synthetic stimulant drug that affects the central nervous system, typically prescribed to treat conditions such as attention deficit hyperactivity disorder (ADHD) and narcolepsy, known to increase alertness, focus, and energy levels
22.	abnormal elephy	n.	(also "EEG") a diagnostic medical procedure that involves the use of electrodes placed on the scalp to measure and record the electrical activity of the brain often used to assess and diagnose various neurological conditions
23.	the peve odor of garlic	adj.	spreading or existing throughout every part of a thing or place
24.	excite the nens	n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body
25.	doI surface	adj.	located on the back, particularly the upper surface of an animal's body; related to or pertaining to the back
26.	nen cell body	n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body

ANSWERS: 19. explode, 20. microscopic, 21. amphetamine, 22. electroencephalography, 23. pervasive, 24. neuron, 25. dorsal, 26. neuron

ANSWERS: 27. medicinal, 28. reorganize, 29. degenerate, 30. retrospect, 31. dedicate, 32. preface, 33. electroencephalography, 34. skeptical

35.	viry business	adj.	having or showing exceptional foresight and imagination; not practical or realizable; speculative
36.	traditional meal	adj.	of or relating to the treatment or cure of disease
37.	doI root	adj.	located on the back, particularly the upper surface of an animal's body; related to or pertaining to the back
38.	preal bone	adj.	in or about the foremost part of the frontal lobe of the brain
39.	pie the armored shells	<i>v</i> .	to cut or make a way through with a sharp instrument
40.	roc guide operation	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
41.	the moo for safe traffic	n.	a phrase or slogan that expresses a guiding principle or goal
42.	aviation derion	n.	the process of reducing or removing government regulations and restrictions in a particular industry or sector, often to promote competition and reduce costs
43.	viry ideas	adj.	having or showing exceptional foresight and imagination; not practical or realizable; speculative
44.	Aler's brain	n.	a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

ANSWERS: 35. visionary, 36. medicinal, 37. dorsal, 38. prefrontal, 39. pierce, 40. robotic, 41. motto, 42. deregulation, 43. visionary, 44. Alzheimer

45.	retct review	n.	a review or analysis of past events, particularly to gain insight or understanding; a consideration of something that has already occurred or been accomplished
46.	recble landmark	adj.	easy to become aware of or identify
47.	company moo	n.	a phrase or slogan that expresses a guiding principle or goal
48.	micic analysis	adj.	tiny; exceedingly precise and detail-oriented; of or used in microscopy
49.	full of tos	n.	a mistake made in typing or the reproduction of a text
50.	cardiac M_I	n.	(abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
51.	saal article	adj.	characterized by the use of criticism that ridicules human folly, vices, or weaknesses through humor, irony, or sarcasm
52.	preal region	adj.	in or about the foremost part of the frontal lobe of the brain
53.	ampne-based medication	n.	a synthetic stimulant drug that affects the central nervous system, typically prescribed to treat conditions such as attention deficit hyperactivity disorder (ADHD) and narcolepsy, known to increase alertness, focus, and energy

ANSWERS: 45. retrospect, 46. recognizable, 47. motto, 48. microscopic, 49. typo, 50. MRI, 51. satirical, 52. prefrontal, 53. amphetamine

levels

54.	derion of the economy	n.	the process of reducing or removing government regulations and restrictions in a particular industry or sector, often to promote competition and reduce costs
55.	to-free resume	n.	a mistake made in typing or the reproduction of a text
56.	degte into recession	ν.	(of a person, animal, or plant) to become worse in health or physical condition
57.	slh a drink	ν.	to move the liquid around, usually inside a container, with a splashing or slapping sound; to move clumsily through water or mud
58.	skal scientists	adj.	doubting that something is accurate or useful
59.	exe in popularity	v.	to burst or break open violently and noisily; to cause something to burst or break open
60.	sl_h through the mud	ν.	to move the liquid around, usually inside a container, with a splashing or slapping sound; to move clumsily through water or mud

ANSWERS: 54. deregulation, 55. typo, 56. degenerate, 57. slosh, 58. skeptical, 59. explode, 60. slosh

Session 3: Fill in the Blanks

1.	The patient was experiencing severe auditory hallucinations.
n.	a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior
2.	The author wrote a powerful explaining their motivation for writing the book.
n.	an introduction or preliminary statement, particularly to a book or other written work, that provides context or sets out the author's purpose or perspective
3.	His car was easily in the parking lot.
adj	easy to become aware of or identify
4.	Research shows that damage to the cortex leads to increased aggression.
adj	in or about the foremost part of the frontal lobe of the brain
5.	With we can see that investing in that company was a mistake.
n.	understanding or knowledge that comes after an event has occurred; the ability to perceive or understand events with greater clarity or accuracy in retrospect
6.	His religious and philosophical beliefs were utterly
adj	doubting that something is accurate or useful
7.	The abuse of can have serious and long-lasting health effects.
n.	a synthetic stimulant drug that affects the central nervous system, typically prescribed to treat conditions such as attention deficit hyperactivity disorder (ADHD) and narcolepsy, known to increase alertness, focus, and energy levels
	SWERS: 1. schizophrenia, 2. preface, 3. recognizable, 4. prefrontal, 5. hindsight, skeptical, 7. amphetamine

ANSWERS: 8. reorganize, 9. MRI, 10. retrospect, 11. pierced, 12. motto, 13. pervasive, 14. satirical, 15. typo

Vocab-Builder Ref from "Sam Rodriques: What we'll learn about the brain in the next century | TED Talk" (30 words)

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