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Vocabulary Builder Reference from...

Joshua W. Pate: The mysterious science of pain |

TED Talk

https://www.ted.com/talks/joshua_w_pate_the_myster

ious_science_of_pain



IMPORTANT

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Session 1: Word List

astonishing

adj. surprising or shocking; difficult to believe

synonym: surprising, shocking, astounding

(1) astonishing achievement, (2) make astonishing gains

The news of her sudden death was astonishing to everyone

who knew her.

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.

agon

n. a contest or competition, typically one in which participants exert themselves physically or mentally to

achieve victory or surpass others

synonym: struggle, conflict, fight

(1) emotional **agon**, (2) an **agon** of creativity

The weightlifting competition brought together athletes from

different countries for an international agon.

unbearable

adj. not able to be tolerated or endured; too difficult, severe,

or intense to be dealt with or suffered through;

intolerable or insufferable

synonym: intolerable, insufferable, unendurable



(1) unbearable heat, (2) unbearable pain

The loss of his wife was an **unbearable** sorrow that he found hard to overcome.

nociceptor

- a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
- (1) thermal **nociceptor**, (2) **nociceptor** fiber The **nociceptors** in the skin are activated by heat, cold, and pressure.

amplify

- to enhance something, particularly sound or brightness synonym: intensify, boost, argument
- (1) **amplify** a signal, (2) **amplify** the effect You might need to **amplify** this point.

amplification

the process of increasing the volume or intensity of something; the expansion or elaboration of a concept or idea

synonym: enlargement, expansion, intensification

(1) amplification system, (2) sound amplification The political debate was an **amplification** of the candidates' views on key issues.

nudge

to push someone or something gently, especially with your elbow, to attract the person's attention; (noun) a small push or prod to encourage a desired action or behavior

synonym: bump, elbow, (noun) prod

- (1) nudge price levels up, (2) give a person a nudge The teacher **nudged** the student to get his attention and asked him a question.
- to endure or last longer than something else; to outlast overcome challenges or obstacles and remain in existence

synonym: endure, survive, persevere

(1) **outlast** competitors, (2) **outlast** the storm Some species of turtles can **outlast** human beings by centuries.

two-pronged

adj. having two prongs:

(1) **two-pronged** process, (2) **two-pronged** fork
A **two-pronged** attack with synchronized landings at both camps was deemed the optimal strategy.

uncover

v. to remove the cover from something; to discover something previously unseen or hidden

synonym: disclose, reveal, unveil

(1) **uncover** a potential problem, (2) **uncover** the truth He continued his investigation and soon **uncovered** another crime.

glia

 a type of brain cell that supports and insulates neurons, provides nutrients to them, and helps to regulate their activity

synonym: astrocyte, microglia, oligodendrocyte

(1) neural **glia**, (2) **glia** function

The human brain contains both neurons and glia cells.

neuron

- n. a cell that is specialized to carry information within the brain and between the brain and other parts of the bodysynonym: nerve cell
- (1) excite the **neurons**, (2) **neuron** cell body Our body transfers information along each **neuron** using an electrical impulse.

amygdala

- one of two parts of the almond-shaped neural structure that are linked to emotions, especially fear and pleasure, memory, and the sense of smell
- (1) the decline in **amygdala** activity, (2) **amygdala** damage The **amygdala** has been associated with memories of past emotional events.

pinpoint

v. to locate or identify the exact position in space or time of something

synonym: name, direct, identify

(1) **pinpoint** the problem, (2) **pinpoint** signs of manipulation This radar quickly **pinpoints** the position of the enemy.

Session 2: Spelling

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- 2. am____la damage
- 3. thermal noc____or
- 4. un___r the truth
- 5. make ast____ng gains
- 6. ast____ng achievement
- 7. nu e price levels up
- 8. give a person a nu e

- a type of brain cell that supports and insulates neurons, provides nutrients to them, and helps to regulate their activity
- n. one of two parts of the almond-shaped neural structure that are linked to emotions, especially fear and pleasure, memory, and the sense of smell
- n. a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
- v. to remove the cover from something; to discover something previously unseen or hidden
- adj. surprising or shocking; difficult to believe
- adj. surprising or shocking; difficult to believe
- v. to push someone or something gently, especially with your elbow, to attract the person's attention; (noun) a small push or prod to encourage a desired action or behavior
- to push someone or something gently, especially with your elbow, to attract the person's attention; (noun) a small push or prod to encourage a desired action or behavior

ANSWERS: 1. glia, 2. amygdala, 3. nociceptor, 4. uncover, 5. astonishing, 6. astonishing, 7. nudge, 8. nudge

9.	pint the problem	ν.	to locate or identify the exact position in space or time of something
10.	nocor fiber	n.	a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
11.	twoed fork	adj.	having two prongs:
12.	amy a signal	<i>v</i> .	to enhance something, particularly sound or brightness
13.	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
14.	out competitors	v.	to endure or last longer than something else; to overcome challenges or obstacles and remain in existence
15.	ampion system	n.	the process of increasing the volume or intensity of something; the expansion or elaboration of a concept or idea
16.	neural ga	n.	a type of brain cell that supports and insulates neurons, provides nutrients to them, and helps to regulate their activity
17.	emotional an	n.	a contest or competition, typically one in which participants exert themselves physically or mentally to achieve victory or surpass others
18.	amy the effect	<i>v</i> .	to enhance something, particularly sound or brightness

ANSWERS: 9. pinpoint, 10. nociceptor, 11. two-pronged, 12. amplify, 13. neuron, 14. outlast, 15. amplification, 16. glia, 17. agon, 18. amplify

19.	unble heat	adj.	not able to be tolerated or endured; too difficult, severe, or intense to be dealt with or suffered through; intolerable or insufferable
20.	an an of creativity	n.	a contest or competition, typically one in which participants exert themselves physically or mentally to achieve victory or surpass others
21.	out the storm	v.	to endure or last longer than something else; to overcome challenges or obstacles and remain in existence
22.	pie a mystery	<i>v</i> .	to cut or make a way through with a sharp instrument
23.	the decline in amla activity	n.	one of two parts of the almond-shaped neural structure that are linked to emotions, especially fear and pleasure, memory, and the sense of smell
24.	unr a potential problem	v.	to remove the cover from something; to discover something previously unseen or hidden
25.	unble pain	adj.	not able to be tolerated or endured; too difficult, severe, or intense to be dealt with or suffered through; intolerable or insufferable
26.	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
27.	sound ampion	n.	the process of increasing the volume or intensity of something; the expansion or elaboration of a concept or idea

ANSWERS: 19. unbearable, 20. agon, 21. outlast, 22. pierce, 23. amygdala, 24. uncover, 25. unbearable, 26. neuron, 27. amplification

28.	two	ed	process

adj. having two prongs:

- 29. pi___nt signs of manipulation
- v. to locate or identify the exact position in space or time of something
- 30. pi___e the armored shells
- v. to cut or make a way through with a sharp instrument

ANSWERS: 28. two-pronged, 29. pinpoint, 30. pierce

Session 3: Fill in the Blanks

1.	The extreme cold our bones.
<i>v</i> .	to cut or make a way through with a sharp instrument
2.	Our body transfers information along each using an electrical impulse.
n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body
3.	The has been associated with memories of past emotional events.
n.	one of two parts of the almond-shaped neural structure that are linked to emotions, especially fear and pleasure, memory, and the sense of smell
4.	The teacher the student to get his attention and asked him a question.
<i>v</i> .	to push someone or something gently, especially with your elbow, to attract the person's attention; (noun) a small push or prod to encourage a desired action or behavior
5.	The news of her sudden death was to everyone who knew her.
adj	surprising or shocking; difficult to believe
6.	A attack with synchronized landings at both camps was deemed the optimal strategy.
adj	having two prongs:
7.	The human brain contains both neurons and cells.
n.	a type of brain cell that supports and insulates neurons, provides nutrients to them, and helps to regulate their activity
	SWERS: 1. pierced, 2. neuron, 3. amygdala, 4. nudged, 5. astonishing, 6pronged, 7. glia

3.	This radar quickly the position of the enemy.
v.	to locate or identify the exact position in space or time of something
9.	You might need to this point.
v.	to enhance something, particularly sound or brightness
10.	He continued his investigation and soon another crime.
v.	to remove the cover from something; to discover something previously unseen or hidden
11.	The in the skin are activated by heat, cold, and pressure.
n.	a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
12.	The weightlifting competition brought together athletes from different countries for an international
n.	a contest or competition, typically one in which participants exert themselves physically or mentally to achieve victory or surpass others
13.	Some species of turtles can human beings by centuries.
<i>v</i> .	to endure or last longer than something else; to overcome challenges or obstacles and remain in existence
14.	The political debate was an of the candidates' views on key issues.
n.	the process of increasing the volume or intensity of something; the expansion or elaboration of a concept or idea
15.	The loss of his wife was an sorrow that he found hard to overcome.
adj	not able to be tolerated or endured; too difficult, severe, or intense to be dealt with or suffered through; intolerable or insufferable
	SWERS: 8. pinpoints, 9. amplify, 10. uncovered, 11. nociceptors, 12. agon, 13. last, 14. amplification, 15. unbearable

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