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# Vocabulary Builder Reference from...

Sheila Nirenberg: A prosthetic eye to treat blindness | TED Talk

https://www.ted.com/talks/sheila\_nirenberg\_a\_prosth etic\_eye\_to\_treat\_blindness



# **Advanced Words Only**

#### **IMPORTANT**

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# **Session 1: Word List**

#### clinician

 a practitioner, especially of medicine or psychology, who has direct contact with patients

*synonym*: psychiatrist, therapist, doctor

(1) experienced **clinician**, (2) from a **clinician's** perspective Some **clinicians** believe that psychological characteristics alone may cause mental disorders.

# prosthetic

- adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
- have prosthetic arms, (2) prosthetic limbs
   New prosthetic joints are less prone to metal poisoning.

## foray

 a sudden or brief attack or incursion; a venture into something unfamiliar or challenging

synonym: raid, attack, incursion

(1) make a quick **foray**, (2) **foray** into politics

The company made a **foray** into the Chinese market.

# retina

- the innermost light-sensitive membrane covering the back wall of the eyeball
- (1) retinal cells, (2) retina scanner

Damage to the **retina** may play a role in the development of glaucoma.

#### macula

 a small, oval-shaped area near the center of the retina of the eye, responsible for providing high-resolution vision

synonym: center of the retina, spot, eyespot

(1) macula lutea, (2) damage to the macula

There are several treatment options available for patients with **macula-related** disorders.

# 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.

# photoreceptor

 a specialized cell in the retina of the eye that responds to light and enables vision; there are two types of photoreceptor cells - rods and cones - that are responsible for different aspects of vision

*synonym*: rod, cone, light-sensitive cell

(1) **photoreceptor** cells, (2) damaged **photoreceptor** Cone **photoreceptors** are responsible for color vision.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments He is very popular at school because he can **mimic** all the teachers' accents.

## transducer

 a device or instrument that converts one type of energy, such as sound, pressure, or temperature, into another type, typically an electrical signal

synonym: sensor, converter, detector

(1) medical **transducer**, (2) **transducer** calibration The **transducer** in the sonar system converts electrical pulses into sound waves to detect underwater objects.

# gutsy

adj. displaying courage, determination, or boldness;
 characterized by a willingness to take risks or face
 challenges

synonym: courageous, brave, daring

(1) gutsy move, (2) gutsy performance

It was gutsy to quit her job and start her own business.

fir

 a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches

synonym: pine, spruce, cedar

(1) fir branch, (2) fir forest

The smell of fresh **fir** trees filled the air at the Christmas tree farm.

#### orient

v. to position or adjust someone or something for a particular purpose; (noun) the countries of Asia

*synonym*: position, align, adjust

(1) **orient** my thinking, (2) the exotic flavor of the **Orient**She took a moment to **orient** herself in the unfamiliar city.

#### reconstruct

v. to build or form something again that has been damaged or destroyed

synonym: rebuild, revamp, reorganize

(1) **reconstruct** an image, (2) **reconstruct** the original text They've decided to **reconstruct** a ruined castle.

generalize

v. to make something, such as a theory, idea, etc., more widespread or widely applicable based on what is true in some cases

*synonym*: conclude, derive, extrapolate

(1) **generalize** Kepler's first law, (2) **generalize** sophisticatedly

It's dangerous to **generalize** about people.

Page 3 / 11

# auditory

adj. of or relating to hearing or the ability to hear synonym: hearing, audible, aural

(1) a good **auditory** memory, (2) **auditory** system

The **auditory** nerve carries sound signals from the ear to the brain.

## cochlea

n. a spiral-shaped cavity in the inner ear that is responsible for hearing; it contains sensory hair cells that convert vibrations into electrical signals that are sent to the brain for interpretation

synonym: spiral organ, snail shell, inner ear

(1) cochlea spiral, (2) implanted cochlea

Damage to the **cochlea** can cause hearing loss or deafness.

# **Session 2: Spelling**

1.	medical traer	n.	a device or instrument that converts one type of energy, such as sound, pressure, or temperature, into another type, typically an electrical signal
2.	aury system	adj.	of or relating to hearing or the ability to hear
3.	implanted coa	n.	a spiral-shaped cavity in the inner ear that is responsible for hearing; it contains sensory hair cells that convert vibrations into electrical signals that are sent to the brain for interpretation
4.	the exotic flavor of the Ort	v.	to position or adjust someone or something for a particular purpose; (noun) the countries of Asia
5.	genze sophisticatedly	ν.	to make something, such as a theory, idea, etc., more widespread or widely applicable based on what is true in some cases
6.	from a clan's perspective	n.	a practitioner, especially of medicine or psychology, who has direct contact with patients
7.	degte into recession	v.	(of a person, animal, or plant) to become worse in health or physical condition
8.	make a quick foy	n.	a sudden or brief attack or incursion; a venture into something unfamiliar or challenging

ANSWERS: 1. transducer, 2. auditory, 3. cochlea, 4. orient, 5. generalize, 6. clinician, 7. degenerate, 8. foray

to position or adjust someone or or\_\_\_t my thinking 9. ν. something for a particular purpose; (noun) the countries of Asia 10. f r branch a type of tall evergreen tree that is n. native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches a small, oval-shaped area near the 11. damage to the ma\_\_\_a center of the retina of the eye, responsible for providing high-resolution vision 12. pro\_\_\_\_ic limbs adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant to imitate someone's speech, 13. mi\_\_c numerous instruments movement, or behavior, especially to make others laugh the innermost light-sensitive membrane 14. re a scanner n. covering the back wall of the eyeball a spiral-shaped cavity in the inner ear 15. co\_\_\_\_a spiral n. that is responsible for hearing; it contains sensory hair cells that convert vibrations into electrical signals that are sent to the brain for interpretation to imitate someone's speech, 16. mi c a human voice ν. movement, or behavior, especially to make others laugh 17. ma\_\_\_a lutea a small, oval-shaped area near the n. center of the retina of the eye, responsible for providing high-resolution

ANSWERS: 9. orient, 10. fir, 11. macula, 12. prosthetic, 13. mimic, 14. retina, 15. cochlea, 16. mimic, 17. macula

vision

18. guy move	adj.	displaying courage, determination, or boldness; characterized by a willingness to take risks or face challenges
19. foy into politics	n.	a sudden or brief attack or incursion; a venture into something unfamiliar or challenging
20. photor cells	n.	a specialized cell in the retina of the eye that responds to light and enables vision; there are two types of photoreceptor cells - rods and cones - that are responsible for different aspects of vision
21. degte into a disagreement	ν.	(of a person, animal, or plant) to become worse in health or physical condition
22. recct an image	ν.	to build or form something again that has been damaged or destroyed
23. guy performance	adj.	displaying courage, determination, or boldness; characterized by a willingness to take risks or face challenges
24. real cells	n.	the innermost light-sensitive membrane covering the back wall of the eyeball
25. recct the original text	<i>v</i> .	to build or form something again that has been damaged or destroyed
26. traer calibration	n.	a device or instrument that converts one type of energy, such as sound, pressure, or temperature, into another type, typically an electrical signal

ANSWERS: 18. gutsy, 19. foray, 20. photoreceptor, 21. degenerate, 22. reconstruct, 23. gutsy, 24. retina, 25. reconstruct, 26. transducer

27.	a good aury memory	adj.	of or relating to hearing or the ability to hear
28.	f_r forest	n.	a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches
29.	experienced clan	n.	a practitioner, especially of medicine or psychology, who has direct contact with patients
30.	genze Kepler's first law	<i>v</i> .	to make something, such as a theory, idea, etc., more widespread or widely applicable based on what is true in some cases
31.	damaged photor	n.	a specialized cell in the retina of the eye that responds to light and enables vision; there are two types of photoreceptor cells - rods and cones - that are responsible for different aspects of vision
32.	have proic arms	adj.	of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

ANSWERS: 27. auditory, 28. fir, 29. clinician, 30. generalize, 31. photoreceptor, 32. prosthetic

# **Session 3: Fill in the Blanks**

1. <i>n</i> .	Damage to the may play a role in the development of glaucoma. the innermost light-sensitive membrane covering the back wall of the eyeball
2.	They've decided to a ruined castle.
<i>v</i> .	to build or form something again that has been damaged or destroyed
3.	The once-thriving city has into a crime-ridden slum.
v.	(of a person, animal, or plant) to become worse in health or physical condition
4.	Some believe that psychological characteristics alone may cause mental disorders.
n.	a practitioner, especially of medicine or psychology, who has direct contact with patients
5.	The nerve carries sound signals from the ear to the brain.
adj	of or relating to hearing or the ability to hear
6.	There are several treatment options available for patients with disorders.
n.	a small, oval-shaped area near the center of the retina of the eye, responsible for providing high-resolution vision
7.	New joints are less prone to metal poisoning.
adj	of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
8.	She took a moment to herself in the unfamiliar city.
<i>v</i> .	to position or adjust someone or something for a particular purpose; (noun) the countries of Asia
	SWERS: 1. retina, 2. reconstruct, 3. degenerated, 4. clinicians, 5. auditory, 6. cula-related, 7. prosthetic, 8. orient

9.	Damage to the	can cause hearing loss or deafness.
n.		in the inner ear that is responsible for hearing; it contains convert vibrations into electrical signals that are sent to tion
10.	The in the waves to detect underw	sonar system converts electrical pulses into sound ater objects.
n.		that converts one type of energy, such as sound, ure, into another type, typically an electrical signal
11.	It's dangerous to	about people.
<i>v</i> .	_	uch as a theory, idea, etc., more widespread or widely hat is true in some cases
12.	It was to quit her	job and start her own business.
adj	displaying courage, de to take risks or face ch	etermination, or boldness; characterized by a willingness nallenges
13.	Cone	are responsible for color vision.
n.		e retina of the eye that responds to light and enables pes of photoreceptor cells - rods and cones - that are nt aspects of vision
14.	He is very popular at sc	hool because he can all the teachers' accents.
v.	to imitate someone's s others laugh	speech, movement, or behavior, especially to make
15.	The company made a _	into the Chinese market.
n.	a sudden or brief attac challenging	ck or incursion; a venture into something unfamiliar or
	SWERS: 9. cochlea, 10. mimic, 15. foray	transducer, 11. generalize, 12. gutsy, 13. photoreceptors

- 16. The smell of fresh \_\_\_\_ trees filled the air at the Christmas tree farm.
  - n. a type of tall evergreen tree that is native to the northern hemisphere, with needle-like leaves and cones that stand upright on the branches

ANSWERS: 16. fir