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Vocabulary Builder Reference from...

Nitish Padmanaban: Autofocusing reading glasses of the future | TED Talk

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

Advanced Words Only

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Session 1: Word List

presbyopia

n. a visual impairment that occurs with age, in which the lens of the eye loses elasticity and the ability to focus on close objects; farsightedness caused by reduced accommodation power of the eye due to the aging process

synonym: farsightedness, hyperopia, aging eye

(1) **presbyopia** glasses, (2) **presbyopia** surgery

After the age of 40, most people begin to experience **presbyopia**.

bifocal

adj. describing lenses that contain two distinct optical powers, typically used for correcting both nearsightedness and farsightedness in the same eyeglasses

synonym: dual-focus, dual-vision

(1) **bifocal** contact lens, (2) **bifocal** reading glasses

His glasses had **bifocal** lenses, allowing him to see near and far.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano,

making it a tight fit.

figurative

adj. using figures of speech, especially metaphors, to create a special effect; not literal

synonym: metaphorical, symbolic, allegorical

(1) in a **figurative** sense, (2) **figurative** painting

When he said he was starving to death, it was a **figurative** way of saying he was very hungry.

blur

n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

synonym: smudge, smear, fuzz

(1) **blur** image, (2) motion **blur**

The camera's focus was off, and the image was a **blur** of colors and shapes.

spectacle

n. something or someone seen, especially a notable or unusual sight; an optical device consisting of a frame that houses a pair of lenses for correcting defective vision

synonym: marvel, sensation, phenomenon

(1) pretty **spectacle**, (2) **spectacle** lens

She could not help watching the sad **spectacle**.

downside

n. the negative aspects or consequences of something; the potential for loss or failure

synonym: drawback, negative, disadvantage

(1) major **downside**, (2) **downside** of globalization

The **downside** of the new policy was that it would be more expensive for customers.

binocular

n. (often used in plural form) a device or instrument designed for use with both eyes simultaneously, enabling a viewer to see objects in a three-dimensional perspective and with greater depth perception; (adjective) relating to or involving both eyes, especially

when viewing through a device such as a pair of binoculars; involving or requiring the use of both eyes
synonym : field glasses, opera glasses, spyglasses

(1) **binoculars** for birdwatching, (2) powerful **binoculars**
The stargazing enthusiasts used their high-powered **binoculars** to study the constellations in the night sky.

crystalline

adj. resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure

synonym : crystallized, clear, transparent

(1) **crystalline** structure, (2) **crystalline** water

The geologist found a beautiful specimen of a **crystalline** mineral.

deform

v. to change or distort the shape or appearance of something; to become misshapen or distorted

synonym : distort, contort, mangle

(1) **deform** the shape, (2) **deform** his way of life

The heat from the fire **deformed** the plastic parts of the appliance.

stiffen

v. to make or become stiff or rigid; to become inflexible or unyielding in one's attitude or behavior

synonym : harden, solidify, tense

(1) **stiffen** joints, (2) **stiffen** penalties

The cold weather made my muscles **stiffen** up.

peg

n. a small cylindrical or tapered pin used to fasten or secure something, such as clothing, on a line, or in carpentry and woodworking; (verb) to fasten or secure something using a peg or similar object; to mark or indicate a level or position using a peg or similar object

synonym : pin, dowel, spike

(1) **peg** in the ground, (2) **peg** an exchange rate

The sheep were tagged with numbered plastic **pegs** in their

ears.

prosthetic

adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

(1) have **prosthetic** arms, (2) **prosthetic** limbs

New **prosthetic** joints are less prone to metal poisoning.

trade-off

n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

synonym: compromise, balance, exchange

(1) **trade-off** problem, (2) environmental **trade-off**

There was a **trade-off** between speed and accuracy in the task.

skimp

v. to be stingy or frugal; to cut corners or reduce expenditure; to do something hastily or incompletely, often to save time or resources

synonym: save, scrimp, economize

(1) **skimp** on expenses, (2) **skimp** my work

I refuse to **skimp** on quality when it comes to my work.

augment

v. to increase the size, extent, quantity, etc. of something by adding something to it

synonym: boost, increase, expand

(1) **augment** the reality, (2) **augment** immunity

Economic factors and monetary policy **augmented** inflation.

fuse

n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

synonym: (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another

He has a short **fuse**.

bulky

adj. taking up much space or being difficult to move because of its size or weight; large and unwieldy

synonym : large, cumbersome, unwieldy

(1) **bulky** material, (2) **bulky** packaging

The **bulky** furniture made it difficult to move around the small room.

outperform

v. to be or do something compared to others of a similar type

synonym : beat, exceed, surpass

(1) **outperform** other countries, (2) **outperform** the human brain

They consistently **outperformed** other teams in the league.

Session 2: Spelling

1. in a fig_____ve sense *adj.* using figures of speech, especially metaphors, to create a special effect; not literal
2. bu__y material *adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy
3. bu__y packaging *adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy
4. st_____n penalties *v.* to make or become stiff or rigid; to become inflexible or unyielding in one's attitude or behavior
5. p_g an exchange rate *n.* a small cylindrical or tapered pin used to fasten or secure something, such as clothing, on a line, or in carpentry and woodworking; (verb) to fasten or secure something using a peg or similar object; to mark or indicate a level or position using a peg or similar object
6. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
7. de___m the shape *v.* to change or distort the shape or appearance of something; to become misshapen or distorted
8. environmental tr_____ff *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

ANSWERS: 1. figurative, 2. bulky, 3. bulky, 4. stiffen, 5. peg, 6. centimeter, 7. deform, 8. trade-off

9. out_____rm the human brain *v.* to be or do something compared to others of a similar type
10. pro_____ic limbs *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
11. de___m his way of life *v.* to change or distort the shape or appearance of something; to become misshapen or distorted
12. f___e blows *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
13. bi_____l reading glasses *adj.* describing lenses that contain two distinct optical powers, typically used for correcting both nearsightedness and farsightedness in the same eyeglasses
14. cry_____ne water *adj.* resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure
15. au_____t immunity *v.* to increase the size, extent, quantity, etc. of something by adding something to it
16. cry_____ne structure *adj.* resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure
17. au_____t the reality *v.* to increase the size, extent, quantity, etc. of something by adding something to it

ANSWERS: 9. outperform, 10. prosthetic, 11. deform, 12. fuse, 13. bifocal, 14. crystalline, 15. augment, 16. crystalline, 17. augment

18. b__r image *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
19. bi_____ars for birdwatching *n.* (often used in plural form) a device or instrument designed for use with both eyes simultaneously, enabling a viewer to see objects in a three-dimensional perspective and with greater depth perception; (adjective) relating to or involving both eyes, especially when viewing through a device such as a pair of binoculars; involving or requiring the use of both eyes
20. fig_____ve painting *adj.* using figures of speech, especially metaphors, to create a special effect; not literal
21. bi_____l contact lens *adj.* describing lenses that contain two distinct optical powers, typically used for correcting both nearsightedness and farsightedness in the same eyeglasses
22. out_____rm other countries *v.* to be or do something compared to others of a similar type
23. pretty sp_____le *n.* something or someone seen, especially a notable or unusual sight; an optical device consisting of a frame that houses a pair of lenses for correcting defective vision
24. sp_____le lens *n.* something or someone seen, especially a notable or unusual sight; an optical device consisting of a frame that houses a pair of lenses for correcting defective vision

ANSWERS: 18. blur, 19. binocular, 20. figurative, 21. bifocal, 22. outperform, 23. spectacle, 24. spectacle

25. motion b__r *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
26. st____n joints *v.* to make or become stiff or rigid; to become inflexible or unyielding in one's attitude or behavior
27. sk__p my work *v.* to be stingy or frugal; to cut corners or reduce expenditure; to do something hastily or incompletely, often to save time or resources
28. pre_____ia glasses *n.* a visual impairment that occurs with age, in which the lens of the eye loses elasticity and the ability to focus on close objects; farsightedness caused by reduced accommodation power of the eye due to the aging process
29. have pro_____ic arms *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
30. p_g in the ground *n.* a small cylindrical or tapered pin used to fasten or secure something, such as clothing, on a line, or in carpentry and woodworking; (verb) to fasten or secure something using a peg or similar object; to mark or indicate a level or position using a peg or similar object
31. sk__p on expenses *v.* to be stingy or frugal; to cut corners or reduce expenditure; to do something hastily or incompletely, often to save time or resources

ANSWERS: 25. blur, 26. stiffen, 27. skimp, 28. presbyopia, 29. prosthetic, 30. peg, 31. skimp

32. f__e with one another *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
33. pre_____ia surgery *n.* a visual impairment that occurs with age, in which the lens of the eye loses elasticity and the ability to focus on close objects; farsightedness caused by reduced accommodation power of the eye due to the aging process
34. tr_____ff problem *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
35. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
36. do_____de of globalization *n.* the negative aspects or consequences of something; the potential for loss or failure
37. major do_____de *n.* the negative aspects or consequences of something; the potential for loss or failure
38. powerful bi_____ars *n.* (often used in plural form) a device or instrument designed for use with both eyes simultaneously, enabling a viewer to see objects in a three-dimensional perspective and with greater depth perception; (adjective) relating to or involving both eyes, especially when viewing through a device such as a pair of binoculars; involving or requiring the use of both eyes

ANSWERS: 32. fuse, 33. presbyopia, 34. trade-off, 35. centimeter, 36. downside, 37. downside, 38. binocular

ANSWERS:

Session 3: Fill in the Blanks

1. He has a short _____.

n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

2. 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

3. They consistently _____ other teams in the league.

v. to be or do something compared to others of a similar type

4. When he said he was starving to death, it was a _____ way of saying he was very hungry.

adj. using figures of speech, especially metaphors, to create a special effect; not literal

5. The _____ furniture made it difficult to move around the small room.

adj. taking up much space or being difficult to move because of its size or weight; large and unwieldy

6. There was a _____ between speed and accuracy in the task.

n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

7. The camera's focus was off, and the image was a _____ of colors and shapes.

n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

ANSWERS: 1. fuse, 2. prosthetic, 3. outperformed, 4. figurative, 5. bulky, 6. trade-off, 7. blur

8. The room was only one _____ wider than the piano, making it a tight fit.
- n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
9. She could not help watching the sad _____.
- n.* something or someone seen, especially a notable or unusual sight; an optical device consisting of a frame that houses a pair of lenses for correcting defective vision
10. The _____ of the new policy was that it would be more expensive for customers.
- n.* the negative aspects or consequences of something; the potential for loss or failure
11. The heat from the fire _____ the plastic parts of the appliance.
- v.* to change or distort the shape or appearance of something; to become misshapen or distorted
12. Economic factors and monetary policy _____ inflation.
- v.* to increase the size, extent, quantity, etc. of something by adding something to it
13. The sheep were tagged with numbered plastic _____ in their ears.
- n.* a small cylindrical or tapered pin used to fasten or secure something, such as clothing, on a line, or in carpentry and woodworking; (verb) to fasten or secure something using a peg or similar object; to mark or indicate a level or position using a peg or similar object
14. The geologist found a beautiful specimen of a _____ mineral.
- adj.* resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure

ANSWERS: 8. centimeter, 9. spectacle, 10. downside, 11. deformed, 12. augmented, 13. pegs, 14. crystalline

15. After the age of 40, most people begin to experience _____.
- n.* a visual impairment that occurs with age, in which the lens of the eye loses elasticity and the ability to focus on close objects; farsightedness caused by reduced accommodation power of the eye due to the aging process
16. The cold weather made my muscles _____ up.
- v.* to make or become stiff or rigid; to become inflexible or unyielding in one's attitude or behavior
17. The stargazing enthusiasts used their high-powered _____ to study the constellations in the night sky.
- n.* (often used in plural form) a device or instrument designed for use with both eyes simultaneously, enabling a viewer to see objects in a three-dimensional perspective and with greater depth perception; (adjective) relating to or involving both eyes, especially when viewing through a device such as a pair of binoculars; involving or requiring the use of both eyes
18. His glasses had _____ lenses, allowing him to see near and far.
- adj.* describing lenses that contain two distinct optical powers, typically used for correcting both nearsightedness and farsightedness in the same eyeglasses
19. I refuse to _____ on quality when it comes to my work.
- v.* to be stingy or frugal; to cut corners or reduce expenditure; to do something hastily or incompletely, often to save time or resources

ANSWERS: 15. presbyopia, 16. stiffen, 17. binoculars, 18. bifocal, 19. skimp