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Sal Khan: Let's use video to reinvent education | TED Talk

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

Advanced Words Only

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Session 1: Word List

montage

n. a sequence of images, sounds, or clips that are combined to convey a particular message or emotion

synonym : collage, mosaic, compilation

(1) **montage** sequence, (2) photographic **montage**

The film used a **montage** of images to show the progress of the character's journey over time.

hypotenuse

n. in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides

synonym : oblique, diagonal, slant

(1) right-angled **hypotenuse**, (2) calculate the **hypotenuse**

To find the **hypotenuse** length, you can use the Pythagorean theorem.

sigma

n. the eighteenth letter of the Greek alphabet, used in mathematics and science to represent standard deviation or a summation of a series of values

synonym : sum, standard deviation, numerical value

(1) three **sigma**, (2) **sigma** notation

In math, the **sigma** symbol represents a sum of numbers.

aldehyde

n. a type of organic chemical compound that features a carbonyl group (a carbon atom double-bonded to an oxygen atom) at the end of a carbon chain, often used in the manufacture of various products, including plastics, solvents and fragrances

(1) **aldehyde** molecule, (2) glyoxylic **aldehyde**

The **aldehyde** group is a key functional group in organic chemistry.

backhand

n. (in sports such as tennis and squash) a stroke or shot made with the back of the hand facing forward is used to hit the ball on the non-dominant side of the body

(1) **backhand** shot, (2) **backhand** grip

She hit a perfect **backhand** winner down the line to win the match.

embarrass

v. to cause someone to feel awkward, worried, or ashamed
synonym: disconcert, unsettle, agitate

(1) **embarrass** political enemy, (2) **embarrass** my project

He looked for an opportunity to **embarrass** that actor in public.

intimacy

n. close familiarity or friendship; a close, familiar, and usually affectionate or loving personal relationship with another person

synonym: closeness, familiarity, nearness

(1) on terms of **intimacy**, (2) build **intimacy**

They were looking for **intimacy** in their relationship and wanted to be close to each other.

stumble

v. to miss a step and fall or nearly fall; to walk unsteadily
synonym: bumble, struggle, misstep

(1) **stumble** financially, (2) **stumble** through life

She **stumbled** over the tree root.

dread

v. to be very afraid of or worried about something that is going to happen or that might happen

synonym : fear, cringe, apprehend

(1) **dread** failure, (2) **dread** getting old

We all **dread** to think about what will happen if the company goes bankrupt.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym : thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

grandkid

n. the grandchildren of a particular person

synonym : grandchildren, grandnieces, grandnephews

(1) spend the weekend with their **grandkids**, (2) cute

grandkids

She was so proud of her **grandkids**, who were all doing well in school and had great personalities.

Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

synonym : classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics

The motion of planets can be described using **Newtonian** mechanics.

motto

n. 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.

penetrate

v. to pass into or through something, often by overcoming resistance

synonym : pierce, stab, go through

(1) **penetrate** a cell, (2) **penetrate** quickly into the skin

Western ideology slowly **penetrates** through the eastern

countries.

humanize

v. to make something or someone more humane or compassionate; to make something more relatable or understandable to humans

synonym : civilize, personalize

(1) **humanize** my pet, (2) **humanize** a room

The charity event aims to **humanize** the homeless rather than treat them as mere statistics.

antagonistic

adj. characterized by opposition or hostility towards someone or something, often used to describe a confrontational or aggressive attitude

synonym : hostile, opposing, conflicting

(1) an **antagonistic** contradiction, (2) **antagonistic** relationship

His **antagonistic** behavior was causing trouble in the workplace.

quitter

n. a person who gives up easily or does not have the determination to finish what they have started

synonym : coward, deserter, surrender

(1) easy **quitter**, (2) serial **quitter**

He was labeled as a **quitter** after he abandoned the project halfway.

unicycle

n. a vehicle consisting of a single wheel, typically with pedals and a seat affixed to the axle

synonym : monocycle, one-wheeler

(1) ride a **unicycle**, (2) **unicycle** balance

I watched in awe as he rode his **unicycle** across the tightrope.

mastery

n. complete control or power of something to dominate or defeat; great skill or knowledge in a particular subject or activity

synonym : proficiency, aptitude, domination

(1) **mastery** of mathematics, (2) strive for **mastery**

The country finally gained **mastery** over the whole land of its neighbors.

trigonometry

n. a branch of mathematics that deals with the relationships and properties of triangles, including the angles and sides, as well as the calculations and measurements involving trigonometric functions such as sine, cosine, and tangent

synonym : math, geometry, calculation

(1) **trigonometry** principles, (2) solve **trigonometry** problems

In computer graphics, **trigonometry** functions are often used to calculate angles and distances between points.

nod

v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

synonym : respond, acknowledge, greet

(1) **nod** at each other, (2) **nod** courteously

She **noded** quietly in response to the question.

alto

n. the second-highest vocal range in choral music, typically sung by the second-highest singers in a choir; a type of saxophone

synonym : contralto, countertenor, soprano

(1) **alto** saxophone, (2) an **alto** solo

The **alto** singer had a unique and powerful voice.

dashboard

n. a control panel set within the central console of a vehicle or small aircraft; a diagram that depicts critical information, typically one that provides a business overview

synonym : control panel

(1) auto **dashboard**, (2) business **dashboard**

He noticed that the oil warning light on the **dashboard** of his car had turned on.

proficient

adj. having a high level of skill or knowledge in a particular area

synonym : expert, skilled, adept

(1) **proficient** speaker, (2) **proficient** skill

She is **proficient** in Spanish and can communicate fluently.

granular

adj. consisting of or resembling small grains or particles; having a rough, irregular texture or appearance

synonym : gritty, grainy, sandy

(1) a **granular** medicine, (2) **granular** data

The soil had a **granular** texture, making it easy to plant the seeds.

whatnot

n. unspecified or unimportant objects, things, or details; miscellaneous items or things; a small, open shelving unit or stand used for displaying various objects or curios

synonym : odds and ends, gizmos, etcetera

(1) books and **whatnot**, (2) clothes and **whatnot**

I need to pick up some groceries, toiletries, and **whatnot** at the store.

remediate

v. to correct, repair, or improve a problem or pitfall, often in a technological, environmental, or medical context

synonym : correct, rectify, fix

(1) **remediate** damage, (2) **remediate** the situation

We need to **remediate** the contaminated soil before it is safe to use.

confuse

v. to mistake one thing for another; to make somebody hard to understand

synonym : confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

nephew

n. a son of your brother or sister

(1) three-year-old **nephew**, (2) nieces and **nephews**

My **nephew** is eight months old and still being breastfed.

Session 2: Spelling

- | | |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. strive for ma_____y | <i>n.</i> complete control or power of something to dominate or defeat; great skill or knowledge in a particular subject or activity |
| 2. ride a un_____le | <i>n.</i> a vehicle consisting of a single wheel, typically with pedals and a seat affixed to the axle |
| 3. cute gr_____ids | <i>n.</i> the grandchildren of a particular person |
| 4. n_d courteously | <i>v.</i> to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation |
| 5. re_____te damage | <i>v.</i> to correct, repair, or improve a problem or pitfall, often in a technological, environmental, or medical context |
| 6. pro_____nt speaker | <i>adj.</i> having a high level of skill or knowledge in a particular area |
| 7. on terms of in_____cy | <i>n.</i> close familiarity or friendship; a close, familiar, and usually affectionate or loving personal relationship with another person |
| 8. ex___e rebellion | <i>v.</i> to make someone feel suddenly enthusiastic or eager |
| 9. three si__a | <i>n.</i> the eighteenth letter of the Greek alphabet, used in mathematics and science to represent standard deviation or a summation of a series of values |

ANSWERS: 1. mastery, 2. unicycle, 3. grandkid, 4. nod, 5. remediate, 6. proficient, 7. intimacy, 8. excite, 9. sigma

10. a gr_____ar medicine *adj.* consisting of or resembling small grains or particles; having a rough, irregular texture or appearance
11. solve tri_____try problems *n.* a branch of mathematics that deals with the relationships and properties of triangles, including the angles and sides, as well as the calculations and measurements involving trigonometric functions such as sine, cosine, and tangent
12. spend the weekend with their gr_____ids *n.* the grandchildren of a particular person
13. co_____e the listener *v.* to mistake one thing for another; to make somebody hard to understand
14. serial qu_____r *n.* a person who gives up easily or does not have the determination to finish what they have started
15. photographic mo_____e *n.* a sequence of images, sounds, or clips that are combined to convey a particular message or emotion
16. al_____de molecule *n.* a type of organic chemical compound that features a carbonyl group (a carbon atom double-bonded to an oxygen atom) at the end of a carbon chain, often used in the manufacture of various products, including plastics, solvents and fragrances
17. right-angled hyp_____se *n.* in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides

ANSWERS: 10. granular, 11. trigonometry, 12. grandkid, 13. confuse, 14. quitter, 15. montage, 16. aldehyde, 17. hypotenuse

18. three-year-old ne___w *n.* a son of your brother or sister
19. an a__o solo *n.* the second-highest vocal range in choral music, typically sung by the second-highest singers in a choir; a type of saxophone
20. ma_____y of mathematics *n.* complete control or power of something to dominate or defeat; great skill or knowledge in a particular subject or activity
21. easy qu_____r *n.* a person who gives up easily or does not have the determination to finish what they have started
22. st_____e financially *v.* to miss a step and fall or nearly fall; to walk unsteadily
23. mo_____e sequence *n.* a sequence of images, sounds, or clips that are combined to convey a particular message or emotion
24. a__o saxophone *n.* the second-highest vocal range in choral music, typically sung by the second-highest singers in a choir; a type of saxophone
25. co_____e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
26. auto da_____rd *n.* a control panel set within the central console of a vehicle or small aircraft; a diagram that depicts critical information, typically one that provides a business overview
27. pe_____te a cell *v.* to pass into or through something, often by overcoming resistance

ANSWERS: 18. nephew, 19. alto, 20. mastery, 21. quitter, 22. stumble, 23. montage, 24. alto, 25. confuse, 26. dashboard, 27. penetrate

28. ba_____nd grip *n.* (in sports such as tennis and squash) a stroke or shot made with the back of the hand facing forward is used to hit the ball on the non-dominant side of the body
29. pe_____te quickly into the skin *v.* to pass into or through something, often by overcoming resistance
30. clothes and wh_____t *n.* unspecified or unimportant objects, things, or details; miscellaneous items or things; a small, open shelving unit or stand used for displaying various objects or curios
31. em_____ss political enemy *v.* to cause someone to feel awkward, worried, or ashamed
32. hu_____ze a room *v.* to make something or someone more humane or compassionate; to make something more relatable or understandable to humans
33. si__a notation *n.* the eighteenth letter of the Greek alphabet, used in mathematics and science to represent standard deviation or a summation of a series of values
34. tri_____try principles *n.* a branch of mathematics that deals with the relationships and properties of triangles, including the angles and sides, as well as the calculations and measurements involving trigonometric functions such as sine, cosine, and tangent
35. nieces and ne___ws *n.* a son of your brother or sister

ANSWERS: 28. backhand, 29. penetrate, 30. whatnot, 31. embarrass, 32. humanize, 33. sigma, 34. trigonometry, 35. nephew

36. ant_____tic relationship *adj.* characterized by opposition or hostility towards someone or something, often used to describe a confrontational or aggressive attitude
37. dr__d failure *v.* to be very afraid of or worried about something that is going to happen or that might happen
38. build in_____cy *n.* close familiarity or friendship; a close, familiar, and usually affectionate or loving personal relationship with another person
39. un_____le balance *n.* a vehicle consisting of a single wheel, typically with pedals and a seat affixed to the axle
40. hu_____ze my pet *v.* to make something or someone more humane or compassionate; to make something more relatable or understandable to humans
41. an ant_____tic contradiction *adj.* characterized by opposition or hostility towards someone or something, often used to describe a confrontational or aggressive attitude
42. Ne_____an mechanics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
43. calculate the hyp_____se *n.* in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides
44. books and wh_____t *n.* unspecified or unimportant objects, things, or details; miscellaneous items or things; a small, open shelving unit or stand used for displaying various objects or curios

ANSWERS: 36. antagonistic, 37. dread, 38. intimacy, 39. unicycle, 40. humanize, 41. antagonistic, 42. Newtonian, 43. hypotenuse, 44. whatnot

45. Ne_____an physics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
46. dr__d getting old *v.* to be very afraid of or worried about something that is going to happen or that might happen
47. business da_____rd *n.* a control panel set within the central console of a vehicle or small aircraft; a diagram that depicts critical information, typically one that provides a business overview
48. glyoxylic al_____de *n.* a type of organic chemical compound that features a carbonyl group (a carbon atom double-bonded to an oxygen atom) at the end of a carbon chain, often used in the manufacture of various products, including plastics, solvents and fragrances
49. n_d at each other *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
50. the mo__o for safe traffic *n.* a phrase or slogan that expresses a guiding principle or goal
51. gr_____ar data *adj.* consisting of or resembling small grains or particles; having a rough, irregular texture or appearance
52. st_____e through life *v.* to miss a step and fall or nearly fall; to walk unsteadily
53. pro_____nt skill *adj.* having a high level of skill or knowledge in a particular area

ANSWERS: 45. Newtonian, 46. dread, 47. dashboard, 48. aldehyde, 49. nod, 50. motto, 51. granular, 52. stumble, 53. proficient

54. re_____te the situation *v.* to correct, repair, or improve a problem or pitfall, often in a technological, environmental, or medical context
55. em_____ss my project *v.* to cause someone to feel awkward, worried, or ashamed
56. company mo__o *n.* a phrase or slogan that expresses a guiding principle or goal
57. ba_____nd shot *n.* (in sports such as tennis and squash) a stroke or shot made with the back of the hand facing forward is used to hit the ball on the non-dominant side of the body
58. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 54. remediate, 55. embarrass, 56. motto, 57. backhand, 58. excite

Session 3: Fill in the Blanks

1. Her remarks _____ the debate.
v. to mistake one thing for another; to make somebody hard to understand

2. They were looking for _____ in their relationship and wanted to be close to each other.
n. close familiarity or friendship; a close, familiar, and usually affectionate or loving personal relationship with another person

3. He looked for an opportunity to _____ that actor in public.
v. to cause someone to feel awkward, worried, or ashamed

4. My _____ is eight months old and still being breastfed.
n. a son of your brother or sister

5. In computer graphics, _____ functions are often used to calculate angles and distances between points.
n. a branch of mathematics that deals with the relationships and properties of triangles, including the angles and sides, as well as the calculations and measurements involving trigonometric functions such as sine, cosine, and tangent

6. The soil had a _____ texture, making it easy to plant the seeds.
adj. consisting of or resembling small grains or particles; having a rough, irregular texture or appearance

7. She hit a perfect _____ winner down the line to win the match.
n. (in sports such as tennis and squash) a stroke or shot made with the back of the hand facing forward is used to hit the ball on the non-dominant side of the body

ANSWERS: 1. confused, 2. intimacy, 3. embarrass, 4. nephew, 5. trigonometry, 6. granular, 7. backhand

8. To find the _____ length, you can use the Pythagorean theorem.
n. in a right-angled triangle, the longest side, opposite the right angle, which is calculated using the Pythagorean theorem and the lengths of the other two sides
9. We need to _____ the contaminated soil before it is safe to use.
v. to correct, repair, or improve a problem or pitfall, often in a technological, environmental, or medical context
10. The motion of planets can be described using _____ mechanics.
adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation
11. The news of her promotion _____ her.
v. to make someone feel suddenly enthusiastic or eager
12. She _____ quietly in response to the question.
v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
13. She is _____ in Spanish and can communicate fluently.
adj. having a high level of skill or knowledge in a particular area
14. The charity event aims to _____ the homeless rather than treat them as mere statistics.
v. to make something or someone more humane or compassionate; to make something more relatable or understandable to humans
15. She was so proud of her _____ who were all doing well in school and had great personalities.
n. the grandchildren of a particular person

ANSWERS: 8. hypotenuse, 9. remediate, 10. Newtonian, 11. excited, 12. nodded, 13. proficient, 14. humanize, 15. grandkids,

16. Western ideology slowly _____ through the eastern countries.
v. to pass into or through something, often by overcoming resistance
17. I watched in awe as he rode his _____ across the tightrope.
n. a vehicle consisting of a single wheel, typically with pedals and a seat affixed to the axle
18. He noticed that the oil warning light on the _____ of his car had turned on.
n. a control panel set within the central console of a vehicle or small aircraft; a diagram that depicts critical information, typically one that provides a business overview
19. She _____ over the tree root.
v. to miss a step and fall or nearly fall; to walk unsteadily
20. The _____ singer had a unique and powerful voice.
n. the second-highest vocal range in choral music, typically sung by the second-highest singers in a choir; a type of saxophone
21. He was labeled as a _____ after he abandoned the project halfway.
n. a person who gives up easily or does not have the determination to finish what they have started
22. I need to pick up some groceries, toiletries, and _____ at the store.
n. unspecified or unimportant objects, things, or details; miscellaneous items or things; a small, open shelving unit or stand used for displaying various objects or curios
23. The country finally gained _____ over the whole land of its neighbors.
n. complete control or power of something to dominate or defeat; great skill or knowledge in a particular subject or activity

ANSWERS: 16. penetrates, 17. unicycle, 18. dashboard, 19. stumbled, 20. alto, 21. quitter, 22. whatnot, 23. mastery

24. His _____ behavior was causing trouble in the workplace.
adj. characterized by opposition or hostility towards someone or something, often used to describe a confrontational or aggressive attitude
25. The _____ group is a key functional group in organic chemistry.
n. a type of organic chemical compound that features a carbonyl group (a carbon atom double-bonded to an oxygen atom) at the end of a carbon chain, often used in the manufacture of various products, including plastics, solvents and fragrances
26. In math, the _____ symbol represents a sum of numbers.
n. the eighteenth letter of the Greek alphabet, used in mathematics and science to represent standard deviation or a summation of a series of values
27. We all _____ to think about what will happen if the company goes bankrupt.
v. to be very afraid of or worried about something that is going to happen or that might happen
28. The film used a _____ of images to show the progress of the character's journey over time.
n. a sequence of images, sounds, or clips that are combined to convey a particular message or emotion
29. The company's _____ is "Innovation and Service," which is reflected in its products and customer support.
n. a phrase or slogan that expresses a guiding principle or goal

ANSWERS: 24. antagonistic, 25. aldehyde, 26. sigma, 27. dread, 28. montage, 29. motto