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Dan Finkel: 5 ways to share math with kids | TED Talk

https://www.ted.com/talks/dan_finkel_5_ways_to_share_math_with_kids

Advanced Words Only

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Session 1: Word List

exhilarating

adj. making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill

synonym: thrilling, exciting, stimulating

(1) an **exhilarating** drink, (2) **exhilarating** view

Bungee jumping was an **exhilarating** experience that left me shaking with adrenaline.

memorize

v. to learn something carefully so that you will remember it exactly

synonym: learn, remember, remind

(1) **memorize** musical scores, (2) try hard to **memorize** the lines

Lawyers need to **memorize** even the most minor provisions of the law.

disjointed

adj. lacking coherence or connectivity; not flowing smoothly or logically; disconnected or fragmented

synonym: disconnected, disordered, incoherent

(1) **disjointed** speech, (2) **disjointed** narrative

The **disjointed** plot of the movie left many viewers needing clarification and satisfaction.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym : suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

creditor

n. a person, company, etc. to whom a debtor owes money

(1) the **creditor's** claims, (2) bankrupt **creditor**

I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

dazzle

v. to cause someone to lose clear vision temporarily, especially from bright light; to amaze or bewilder somebody with your brilliant wit, intellect, beauty, skill, etc.

synonym : sparkle, flash, astonish

(1) **dazzle** his eyes, (2) **dazzle** all who see it

The audience was **dazzled** by her realistic acting.

alienation

n. the state of being isolated or detached from one's social, emotional, or political environment

synonym : estrangement, separation, detachment

(1) human **alienation**, (2) international **alienation**

His feelings of **alienation** from society led to depression.

squander

v. to spend or use something wastefully; to waste by spending or using too freely

synonym : waste, fritter away, dissipate

(1) **squander** money, (2) **squander** a chance

He **squandered** his inheritance on frivolous purchases.

proclaim

v. to announce or state something publicly and forcefully

synonym : announce, declare, trumpet

(1) **proclaim** victory, (2) **proclaim** law

The leader **proclaimed** a state of emergency in the country.

conceive

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

synonym: imagine, envision, concoct

(1) **conceive** of an idea, (2) **conceive** a child

I can't **conceive** he'd want to harm us.

lurk

v. to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal

synonym: hide, creep, stalk

(1) **lurked** behind the words, (2) **lurk** in the darkness

In the city, the risk of traffic accidents **lurks** at every corner.

profoundly

adv. to a great or complete degree; deeply

synonym: deeply, greatly, completely

(1) **profoundly** insightful, (2) sleep **profoundly**

The novel affected her **profoundly**, causing her to question her beliefs and values.

courageous

adj. able to face and deal with danger or fear without flinching

synonym: brave, valiant, fearless

(1) make a **courageous** decision, (2) **courageous** rescue attempt

He was a **courageous** soldier who had served his country with honor.

persevere

v. to persist in the course of action, despite opposition or difficulty; to continue with determination despite setbacks, obstacles, or discouragement

synonym: persist, endure, continue

(1) **persevere** through hardships, (2) **persevere** in my goals

Even when faced with challenges, it's important to **persevere** and never give up.

perseverance

n. steadfastness in doing something despite difficulty or delay in achieving success

synonym: persistence, tenacity, determination

(1) unwavering **perseverance**, (2) dogged **perseverance**
Despite facing numerous setbacks and obstacles, his **perseverance** and determination led him to success.

grapple

v. to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

synonym: brawl, scuffle, wrestle

(1) **grapple** with problem, (2) **grapple** with each other

He needed to **grapple** with structural reforms to improve the company's revenue.

doe

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym: rabbit, bunny, hare

(1) **doe** rabbit, (2) buck and **doe**

Hunters use a whistle that makes the **doe** sound to lure stags.

inquisitive

adj. curious and interested in learning or finding out about things; questioning or prying into matters that are not one's concern; curious or nosy

synonym: curious, inquiring, nosy

(1) **inquisitive** mind, (2) **inquisitive** researcher

The **inquisitive** child asked endless questions about the world around her.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

disempower

v. to deprive of power, authority, or influence, to make someone or something less powerful or effective

synonym: disenfranchise, weaken, undermine

(1) **disempower** the employees, (2) **disempower** the opposition

The politician's efforts to **disempower** marginalized communities were met with widespread criticism.

disprove

v. to show that something is not true or correct

synonym: refute, discredit, invalidate

(1) **disprove** global warming, (2) **disprove** the conjecture

The researchers were unable to **disprove** the theory.

cryptography

n. the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers

synonym: coding, steganography, encryption

(1) asymmetric **cryptography**, (2) digital **cryptography**

The software engineers developed a new **cryptography** algorithm to protect users' data.

exaggeration

n. an overstatement of facts or description; the act of making something seem larger, more important, or more significant than it is

synonym: hyperbole, overstatement, embellishment

(1) sensational **exaggeration**, (2) minimal **exaggeration**

His story was filled with obvious **exaggerations**.

nurture

v. to take care of, feed, and protect someone or something while they are growing and developing

synonym: boost, cultivate, enable

(1) **nurture** love, (2) **nurture** his talents

Schools should **nurture** children's mutual interest spirit.

instinct

n. an inborn behavioral pattern that is often responsive to specific stimuli; an innate feeling that causes you to act or believe that something is true

synonym: intuition, aptitude, feeling

(1) **instinct** for self-preservation, (2) aggressive **instinct**

When faced with a dangerous situation, his initial **instinct** was to flee.

flourish

v. to grow or develop vigorously or successfully

synonym: boom, advance, succeed

(1) **flourish** economically, (2) **flourish** worldwide

The Ottoman Empire **flourished** for over five centuries.

Session 2: Spelling

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|--------------------------------|---|
| 1. dis_____er the opposition | <i>v.</i> to deprive of power, authority, or influence, to make someone or something less powerful or effective |
| 2. d_e rabbit | <i>n.</i> a mature female of mammals of which the male is called a buck, such as a deer or a rabbit |
| 3. co_____ve of an idea | <i>v.</i> to have or develop an idea, a plan, etc. in mind; to become pregnant |
| 4. op_____ne occasion | <i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose |
| 5. human ali_____on | <i>n.</i> the state of being isolated or detached from one's social, emotional, or political environment |
| 6. gr_____e with problem | <i>v.</i> to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons |
| 7. sensational exa_____ion | <i>n.</i> an overstatement of facts or description; the act of making something seem larger, more important, or more significant than it is |
| 8. pe_____re through hardships | <i>v.</i> to persist in the course of action, despite opposition or difficulty; to continue with determination despite setbacks, obstacles, or discouragement |
| 9. digital cry_____phy | <i>n.</i> the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers |

ANSWERS: 1. disempower, 2. doe, 3. conceive, 4. opportune, 5. alienation, 6. grapple, 7. exaggeration, 8. persevere, 9. cryptography

10. sleep pro_____ly *adv.* to a great or complete degree; deeply
11. dogged per_____nce *n.* steadfastness in doing something despite difficulty or delay in achieving success
12. pro_____ly insightful *adv.* to a great or complete degree; deeply
13. aggressive in_____ct *n.* an inborn behavioral pattern that is often responsive to specific stimuli; an innate feeling that causes you to act or believe that something is true
14. nu_____e love *v.* to take care of, feed, and protect someone or something while they are growing and developing
15. fl_____sh worldwide *v.* to grow or develop vigorously or successfully
16. di_____ve global warming *v.* to show that something is not true or correct
17. dis_____ed speech *adj.* lacking coherence or connectivity; not flowing smoothly or logically; disconnected or fragmented
18. asymmetric cry_____phy *n.* the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers
19. minimal exa_____ion *n.* an overstatement of facts or description; the act of making something seem larger, more important, or more significant than it is

ANSWERS: 10. profoundly, 11. perseverance, 12. profoundly, 13. instinct, 14. nurture, 15. flourish, 16. disprove, 17. disjointed, 18. cryptography, 19. exaggeration

20. pr____im victory *v.* to announce or state something publicly and forcefully
21. nu____e his talents *v.* to take care of, feed, and protect someone or something while they are growing and developing
22. sq____er money *v.* to spend or use something wastefully; to waste by spending or using too freely
23. an exh____ing drink *adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill
24. try hard to me____ze the lines *v.* to learn something carefully so that you will remember it exactly
25. l__ked behind the words *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
26. cou____us rescue attempt *adj.* able to face and deal with danger or fear without flinching
27. buck and d_e *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
28. l__k in the darkness *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
29. inq____ve mind *adj.* curious and interested in learning or finding out about things; questioning or prying into matters that are not one's concern; curious or nosy
30. a det____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

ANSWERS: 20. proclaim, 21. nurture, 22. squander, 23. exhilarating, 24. memorize, 25. lurk, 26. courageous, 27. doe, 28. lurk, 29. inquisitive, 30. determinant

31. the cr____or's claims *n.* a person, company, etc. to whom a debtor owes money
32. co____ve a child *v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
33. da____e all who see it *v.* to cause someone to lose clear vision temporarily, especially from bright light; to amaze or bewilder somebody with your brilliant wit, intellect, beauty, skill, etc.
34. dis____er the employees *v.* to deprive of power, authority, or influence, to make someone or something less powerful or effective
35. in____ct for self-preservation *n.* an inborn behavioral pattern that is often responsive to specific stimuli; an innate feeling that causes you to act or believe that something is true
36. international ali____on *n.* the state of being isolated or detached from one's social, emotional, or political environment
37. inq____ve researcher *adj.* curious and interested in learning or finding out about things; questioning or prying into matters that are not one's concern; curious or nosy
38. sq____er a chance *v.* to spend or use something wastefully; to waste by spending or using too freely
39. pe____re in my goals *v.* to persist in the course of action, despite opposition or difficulty; to continue with determination despite setbacks, obstacles, or discouragement

ANSWERS: 31. creditor, 32. conceive, 33. dazzle, 34. disempower, 35. instinct, 36. alienation, 37. inquisitive, 38. squander, 39. persevere

40. di_____ve the conjecture *v.* to show that something is not true or correct
41. make a cou_____us decision *adj.* able to face and deal with danger or fear without flinching
42. unwavering per_____nce *n.* steadfastness in doing something despite difficulty or delay in achieving success
43. exh_____ing view *adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill
44. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
45. me_____ze musical scores *v.* to learn something carefully so that you will remember it exactly
46. fl_____sh economically *v.* to grow or develop vigorously or successfully
47. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
48. pr_____im law *v.* to announce or state something publicly and forcefully
49. gr_____e with each other *v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
50. dis_____ed narrative *adj.* lacking coherence or connectivity; not flowing smoothly or logically; disconnected or fragmented

ANSWERS: 40. disprove, 41. courageous, 42. perseverance, 43. exhilarating, 44. determinant, 45. memorize, 46. flourish, 47. opportune, 48. proclaim, 49. grapple, 50. disjointed

51. bankrupt cr____or

n. a person, company, etc. to whom a debtor owes money

52. da___e his eyes

v. to cause someone to lose clear vision temporarily, especially from bright light; to amaze or bewilder somebody with your brilliant wit, intellect, beauty, skill, etc.

ANSWERS: 51. creditor, 52. dazzle

Session 3: Fill in the Blanks

1. He was a _____ soldier who had served his country with honor.
adj. able to face and deal with danger or fear without flinching
2. The leader _____ a state of emergency in the country.
v. to announce or state something publicly and forcefully
3. The politician's efforts to _____ marginalized communities were met with widespread criticism.
v. to deprive of power, authority, or influence, to make someone or something less powerful or effective
4. Lawyers need to _____ even the most minor provisions of the law.
v. to learn something carefully so that you will remember it exactly
5. When faced with a dangerous situation, his initial _____ was to flee.
n. an inborn behavioral pattern that is often responsive to specific stimuli; an innate feeling that causes you to act or believe that something is true
6. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose
7. Hunters use a whistle that makes the ____ sound to lure stags.
n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
8. The Ottoman Empire _____ for over five centuries.
v. to grow or develop vigorously or successfully

ANSWERS: 1. courageous, 2. proclaimed, 3. disempower, 4. memorize, 5. instinct, 6. opportune, 7. doe, 8. flourished

9. The _____ child asked endless questions about the world around her.
adj. curious and interested in learning or finding out about things; questioning or prying into matters that are not one's concern; curious or nosy
10. In the city, the risk of traffic accidents _____ at every corner.
v. to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
11. His story was filled with obvious _____.
n. an overstatement of facts or description; the act of making something seem larger, more important, or more significant than it is
12. Schools should _____ children's mutual interest spirit.
v. to take care of, feed, and protect someone or something while they are growing and developing
13. He _____ his inheritance on frivolous purchases.
v. to spend or use something wastefully; to waste by spending or using too freely
14. I can't _____ he'd want to harm us.
v. to have or develop an idea, a plan, etc. in mind; to become pregnant
15. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
16. Bungee jumping was an _____ experience that left me shaking with adrenaline.
adj. making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill

ANSWERS: 9. inquisitive, 10. lurks, 11. exaggerations, 12. nurture, 13. squandered, 14. conceive, 15. determinant, 16. exhilarating

17. The researchers were unable to _____ the theory.

v. to show that something is not true or correct

18. The _____ plot of the movie left many viewers needing clarification and satisfaction.

adj. lacking coherence or connectivity; not flowing smoothly or logically; disconnected or fragmented

19. Despite facing numerous setbacks and obstacles, his _____ and determination led him to success.

n. steadfastness in doing something despite difficulty or delay in achieving success

20. He needed to _____ with structural reforms to improve the company's revenue.

v. to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

21. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.

n. a person, company, etc. to whom a debtor owes money

22. The audience was _____ by her realistic acting.

v. to cause someone to lose clear vision temporarily, especially from bright light; to amaze or bewilder somebody with your brilliant wit, intellect, beauty, skill, etc.

23. Even when faced with challenges, it's important to _____ and never give up.

v. to persist in the course of action, despite opposition or difficulty; to continue with determination despite setbacks, obstacles, or discouragement

ANSWERS: 17. disprove, 18. disjointed, 19. perseverance, 20. grapple, 21. creditor, 22. dazzled, 23. persevere

24. The novel affected her _____ causing her to question her beliefs and values.

adv. to a great or complete degree; deeply

25. His feelings of _____ from society led to depression.

n. the state of being isolated or detached from one's social, emotional, or political environment

26. The software engineers developed a new _____ algorithm to protect users' data.

n. the study of the techniques and methods used for secure communication and information processing, particularly using codes and ciphers

ANSWERS: 24. profoundly, 25. alienation, 26. cryptography