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Vocabulary Builder Reference from...

Jared Ficklin: New ways to see music (with color! and fire!) | TED Talk

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

Advanced Words Only

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Session 1: Word List

visualize

v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her mind.

applaud

v. to express approval of someone or something by clapping the hands

synonym: clap, celebrate, praise

(1) **applaud** his courage, (2) **applaud** the orchestra

I enthusiastically **applaud** my rival's achievement.

waveform

n. a curve illustrating the shape of a wave at a specific time

synonym: waveshape

(1) **waveform** analyses, (2) seismic **waveform**

This **waveform** was quite similar to a sine wave.

rarefy

v. to make or become less dense, thin, or concentrated; to refine, purify, or make more delicate

synonym: attenuate, refine, thin

(1) **rarefy** gases, (2) **rarefy** a substance

We need to **rarefy** the air in the laboratory to create a specific

environment for the experiment.

resonant

adj. tending to reinforce or prolong sound by sympathetic vibration; having a quality that elicits a similar response or feeling

synonym: echoing, reverberating, resonating

(1) **resonant** with the sound, (2) **resonant** cavity

The **resonant** frequency of the guitar string was measured with a tuner.

emergent

adj. starting to exist or view, or to become known

synonym: coming, appearing, developing

(1) **emergent** repair of an aorta, (2) an **emergent** republic

Extensive areas of **emergent** plants are usually called marsh.

eigenmode

n. a specific pattern of oscillation or vibration that is characteristic of a system or structure, particularly in physics and engineering

synonym: eigenstate, normal mode, vibrational pattern

(1) **eigenmode** frequency, (2) **eigenmode** analysis

The engineer studied the **eigenmodes** of the structure to determine its stability.

bisect

v. to divide or cut something into two equal parts, typically by a straight line or plane

synonym: split, divide, halve

(1) **bisect** a polygon, (2) **bisect** an angle

Using a ruler, she carefully **bisected** the line to find its midpoint.

accentuate

v. to emphasize or highlight something, often by making it more prominent or noticeable

synonym: emphasize, highlight, stress

(1) **accentuate** features, (2) **accentuate** the positive

The dress's plunging neckline was designed to **accentuate** the model's curves.

slap

v. to strike something or someone with an open palm or flat object, producing a sharp sound or sensation; to place something firmly, suddenly, or unexpectedly

synonym: smack, hit, whack

(1) **slap** on the back, (2) **slap** a heavy fine

The politician tried to **slap** down the rumors about his personal life.

tumble

v. to fall suddenly, often uncontrollably; to topple or turn over; to decline sharply and quickly in value, quality, or performance

synonym: fall, stumble, plummet

(1) **tumble** down the hill, (2) confidence **tumbles** as unemployment rates rose

The value of the currency **tumbled** against major international currencies.

gong

n. a metal disk that produces a deep, resonant sound when struck with a mallet or other object, often used in percussion music or as a signal in various contexts

synonym: bell, chime, clang

(1) **gong** sound, (2) temple **gong**

As the martial arts master began the demonstration, the sound of the **gong** filled the dojo.

tease

v. to make fun of someone or make jokes about them, either in a playful way or to upset them; to separate the fibers of something; to ruffle a person's or animal's hair by combing

synonym: bully, annoy, provoke

(1) **tease** the children, (2) **tease** wool

This ad is intended to **tease** a competing product.

etiquette

n. a set of rules and norms governing polite and proper behavior in social situations or professional contexts

synonym: protocol, manners, decorum

(1) email **etiquette**, (2) breach of **etiquette**

It's important to follow proper **etiquette** when attending a formal dinner.

hawk

n. a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations

synonym: militarist, jingo, aggressor

(1) cast off a **hawk**, (2) congressional **hawk**

That team signed a center forward who was a ball- **hawk**.

homage

n. a show of respect or honor, often by performing an act of reverence or by paying tribute

synonym: respect, deference, reverence

(1) paying **homage** to tradition, (2) vassal **homage**

The crowd gave a standing ovation as a sign of **homage** to the retiring athlete.

steer

v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

synonym: guide, direct, control

(1) **steer** a steady course, (2) **steer** a conversation

The captain told him to **steer** the ship north.

inflection

n. a change in the pitch or tone of one's voice; a change in the form of a word to indicate tense, mood, gender, or other grammatical categories

synonym: accent, intonation, modulation

(1) **inflection** in voice, (2) **inflection** pattern

The linguist studied the **inflection** of the language's inflection in speech.

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.

applause

n. a demonstration of approval or praise by clapping the hands together

synonym: clapping, cheering, acclaim

(1) round of **applause**, (2) earn **applause**

The **applause** burst from the audience.

timbre

n. the quality of sound that is produced by particular voices or musical instruments sounds different from each other

synonym: resonance, tone, inflection

(1) the **timbre** of a musical sound, (2) the **timbre** of her soprano

His voice had a deep **timbre**.

speculate

v. to form a theory or conjecture or guess about a subject without solid evidence

synonym: assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

Session 2: Spelling

1. acc_____te features *v.* to emphasize or highlight something, often by making it more prominent or noticeable
2. te__e wool *v.* to make fun of someone or make jokes about them, either in a playful way or to upset them; to separate the fibers of something; to ruffle a person's or animal's hair by combing
3. earn ap_____se *n.* a demonstration of approval or praise by clapping the hands together
4. ra____y a substance *v.* to make or become less dense, thin, or concentrated; to refine, purify, or make more delicate
5. the ti____e of her soprano *n.* the quality of sound that is produced by particular voices or musical instruments sounds different from each other
6. cast off a h__k *n.* a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
7. bi____t an angle *v.* to divide or cut something into two equal parts, typically by a straight line or plane
8. paying ho____e to tradition *n.* a show of respect or honor, often by performing an act of reverence or by paying tribute
9. inf_____on pattern *n.* a change in the pitch or tone of one's voice; a change in the form of a word to indicate tense, mood, gender, or other grammatical categories

ANSWERS: 1. accentuate, 2. tease, 3. applause, 4. rarefy, 5. timbre, 6. hawk, 7. bisect, 8. homage, 9. inflection

10. ei_____de analysis *n.* a specific pattern of oscillation or vibration that is characteristic of a system or structure, particularly in physics and engineering
11. inf_____on in voice *n.* a change in the pitch or tone of one's voice; a change in the form of a word to indicate tense, mood, gender, or other grammatical categories
12. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
13. tu___e down the hill *v.* to fall suddenly, often uncontrollably; to topple or turn over; to decline sharply and quickly in value, quality, or performance
14. s__p a heavy fine *v.* to strike something or someone with an open palm or flat object, producing a sharp sound or sensation; to place something firmly, suddenly, or unexpectedly
15. re_____nt with the sound *adj.* tending to reinforce or prolong sound by sympathetic vibration; having a quality that elicits a similar response or feeling
16. ei_____de frequency *n.* a specific pattern of oscillation or vibration that is characteristic of a system or structure, particularly in physics and engineering
17. st__r a steady course *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

ANSWERS: 10. eigenmode, 11. inflection, 12. opportune, 13. tumble, 14. slap, 15. resonant, 16. eigenmode, 17. steer

18. g__g sound *n.* a metal disk that produces a deep, resonant sound when struck with a mallet or other object, often used in percussion music or as a signal in various contexts
19. congressional h__k *n.* a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
20. em_____nt repair of an aorta *adj.* starting to exist or view, or to become known
21. ap_____d his courage *v.* to express approval of someone or something by clapping the hands
22. ap_____d the orchestra *v.* to express approval of someone or something by clapping the hands
23. confidence tu___es as unemployment rates rose *v.* to fall suddenly, often uncontrollably; to topple or turn over; to decline sharply and quickly in value, quality, or performance
24. acc_____te the positive *v.* to emphasize or highlight something, often by making it more prominent or noticeable
25. ra___y gases *v.* to make or become less dense, thin, or concentrated; to refine, purify, or make more delicate
26. vassal ho___e *n.* a show of respect or honor, often by performing an act of reverence or by paying tribute
27. te__e the children *v.* to make fun of someone or make jokes about them, either in a playful way or to upset them; to separate the fibers of something; to ruffle a person's or animal's hair by combing

ANSWERS: 18. gong, 19. hawk, 20. emergent, 21. applaud, 22. applaud, 23. tumble, 24. accentuate, 25. rarefy, 26. homage, 27. tease

28. email et_____te *n.* a set of rules and norms governing polite and proper behavior in social situations or professional contexts
29. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible
30. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
31. round of ap_____se *n.* a demonstration of approval or praise by clapping the hands together
32. bi____t a polygon *v.* to divide or cut something into two equal parts, typically by a straight line or plane
33. sp_____te on the outcome *v.* to form a theory or conjecture or guess about a subject without solid evidence
34. seismic wa_____rm *n.* a curve illustrating the shape of a wave at a specific time
35. sp_____te about the reason *v.* to form a theory or conjecture or guess about a subject without solid evidence
36. breach of et_____te *n.* a set of rules and norms governing polite and proper behavior in social situations or professional contexts
37. an em_____nt republic *adj.* starting to exist or view, or to become known
38. s__p on the back *v.* to strike something or someone with an open palm or flat object, producing a sharp sound or sensation; to place something firmly, suddenly, or unexpectedly

ANSWERS: 28. etiquette, 29. visualize, 30. opportune, 31. applause, 32. bisect, 33. speculate, 34. waveform, 35. speculate, 36. etiquette, 37. emergent, 38. slap

39. re____nt cavity *adj.* tending to reinforce or prolong sound by sympathetic vibration; having a quality that elicits a similar response or feeling
40. st__r a conversation *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
41. temple g__g *n.* a metal disk that produces a deep, resonant sound when struck with a mallet or other object, often used in percussion music or as a signal in various contexts
42. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
43. wa_____rm analyses *n.* a curve illustrating the shape of a wave at a specific time
44. the ti___e of a musical sound *n.* the quality of sound that is produced by particular voices or musical instruments sounds different from each other

ANSWERS: 39. resonant, 40. steer, 41. gong, 42. visualize, 43. waveform, 44. timbre

Session 3: Fill in the Blanks

1. We need to _____ the air in the laboratory to create a specific environment for the experiment.
 - v. to make or become less dense, thin, or concentrated; to refine, purify, or make more delicate

2. The politician tried to _____ down the rumors about his personal life.
 - v. to strike something or someone with an open palm or flat object, producing a sharp sound or sensation; to place something firmly, suddenly, or unexpectedly

3. The _____ frequency of the guitar string was measured with a tuner.
 - adj. tending to reinforce or prolong sound by sympathetic vibration; having a quality that elicits a similar response or feeling

4. I enthusiastically _____ my rival's achievement.
 - v. to express approval of someone or something by clapping the hands

5. That team signed a center forward who was a ball-_____.
 - n. a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations

6. The dress's plunging neckline was designed to _____ the model's curves.
 - v. to emphasize or highlight something, often by making it more prominent or noticeable

7. His voice had a deep _____.
 - n. the quality of sound that is produced by particular voices or musical instruments sounds different from each other

ANSWERS: 1. rarefy, 2. slap, 3. resonant, 4. applaud, 5. hawk, 6. accentuate, 7. timbre

8. She tried to _____ the layout of the new house in her mind.
- v.* to form a mental image or concept of something; to make something visible
9. This _____ was quite similar to a sine wave.
- n.* a curve illustrating the shape of a wave at a specific time
10. This ad is intended to _____ a competing product.
- v.* to make fun of someone or make jokes about them, either in a playful way or to upset them; to separate the fibers of something; to ruffle a person's or animal's hair by combing
11. The captain told him to _____ the ship north.
- v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
12. The engineer studied the _____ of the structure to determine its stability.
- n.* a specific pattern of oscillation or vibration that is characteristic of a system or structure, particularly in physics and engineering
13. The phone rang at the most _____ time.
- adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
14. As the martial arts master began the demonstration, the sound of the _____ filled the dojo.
- n.* a metal disk that produces a deep, resonant sound when struck with a mallet or other object, often used in percussion music or as a signal in various contexts
15. Using a ruler, she carefully _____ the line to find its midpoint.
- v.* to divide or cut something into two equal parts, typically by a straight line or plane

ANSWERS: 8. visualize, 9. waveform, 10. tease, 11. steer, 12. eigenmodes, 13. opportune, 14. gong, 15. bisected

16. The linguist studied the _____ of the language's inflection in speech.
n. a change in the pitch or tone of one's voice; a change in the form of a word to indicate tense, mood, gender, or other grammatical categories
17. The crowd gave a standing ovation as a sign of _____ to the retiring athlete.
n. a show of respect or honor, often by performing an act of reverence or by paying tribute
18. The value of the currency _____ against major international currencies.
v. to fall suddenly, often uncontrollably; to topple or turn over; to decline sharply and quickly in value, quality, or performance
19. Extensive areas of _____ plants are usually called marsh.
adj. starting to exist or view, or to become known
20. The _____ burst from the audience.
n. a demonstration of approval or praise by clapping the hands together
21. It's important to follow proper _____ when attending a formal dinner.
n. a set of rules and norms governing polite and proper behavior in social situations or professional contexts
22. He _____ that this investment would lead to success.
v. to form a theory or conjecture or guess about a subject without solid evidence

ANSWERS: 16. inflection, 17. homage, 18. tumbled, 19. emergent, 20. applause, 21. etiquette, 22. speculated