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Vocabulary Builder Reference from...

Michael Rubinstein: See invisible motion, hear silent sounds | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

- rev**
- n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
- synonym* : revolution, RPM, speed
- (1) low- **rev** engine, (2) **rev** up the crowd
- He stepped on the gas pedal, and the engine released a loud **rev**.
- magnify**
- v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
- synonym* : enlarge, elaborate, intensify
- (1) **magnify** the danger, (2) **magnify** the image for display
- Terrorists often attempt to **magnify** the economic impact of their acts of destruction.
- 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.

neonatal

adj. relating to the first few weeks after birth; pertaining to newborn infants

synonym : newborn, infant, baby

(1) **neonatal** care, (2) **neonatal** jaundice

The **neonatal** unit at the hospital specializes in caring for premature babies.

Christ

n. the man that Christians believe is the prophet and the son of God, and whose life and sermons form the basis for Christianity

synonym : Savior, Jesus Christ, Jesus

(1) teaching of **Christ**, (2) before **Christ**

Christmas is the day to celebrate the birth of Christ.

bale

n. a large bundle of goods such as cotton, hay, or paper; a bundle of goods used to weigh a product, especially wool, hay, etc

synonym : bundle, package, shipment

(1) square **bale**, (2) **bale** of cotton

The farmer stacked the hay **bales** in the barn to keep them dry.

crank

n. a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person

synonym : eccentric, oddball, kook

(1) **crank** handle, (2) **crank** caller

The fishing reel had a **crank** that made it easy to reel in the catch.

amplify

v. to enhance something, particularly sound or brightness

synonym : intensify, boost, argument

(1) **amplify** a signal, (2) **amplify** the effect

You might need to **amplify** this point.

wobble

v. to move or shake unsteadily from side to side or up and down

synonym : sway, rock, totter

(1) **wobble** a few steps, (2) **wobble** chair

The table **wobbled** a little when I put my drink on it.

sway

v. to move back and forth or side to side gently, often in response to external factors such as wind or water; to influence or persuade someone to do something; to control or dominate something

synonym : swing, oscillate, influence

(1) **sway** back and forth, (2) **sway** to the rhythm

The politician tried to **sway** public opinion in his favor, but his arguments fell flat.

creepy

adj. causing an uneasy feeling of fear or unease

synonym : eerie, unsettling, spooky

(1) feel **creepy**, (2) **creepy** atmosphere

The old, abandoned house was **creepy** and gave me the chills.

guinea

n. a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic

synonym : coin, money, currency

(1) **guinea** coins, (2) **guinea** pig

The cost of the antique vase is three **guineas**.

rodent

n. a small, gnawing mammal, such as a mouse, rat, or squirrel, that has sharp incisors and typically has a long, thin tail

synonym : mouse, rat, hamster

(1) **rodent** repellent, (2) prevent **rodent** damage

He set up a trap to catch the **rodent**.

redefine

v. to change the meaning or interpretation of something; to make people think about something in a new or different way

synonym : reconsider, reformulate, alter

(1) **redefine** customer experience, (2) **redefine** our role
The video telephony application has **redefined** the way we work.

singe

v. to burn something slightly or superficially, usually by mistake

synonym: sear, char, burn

(1) **singe** off the hair over the flames, (2) **singe** the edges of a fabric

I didn't realize the iron was still hot and **singed** my dress.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

ripple

n. a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind

synonym: wave, undulation, fluctuation

(1) a **ripple** of laughter, (2) **ripple** in the water

Many businesses felt the **ripple** effect of the economy's decline.

loudspeaker

n. an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas

synonym: speaker, loudhailer, megaphone

(1) wireless **loudspeaker**, (2) **loudspeaker** system

The teacher spoke through the **loudspeaker** so that every student could hear the announcement.

vibrate

v. to move or cause anything to move fast and in small increments from side to side

synonym: oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger
During the flight, the wings of the plane **vibrate**.

resonate

v. to be filled with a deep echoing sound

synonym: echo, reverberate, resound

(1) deeply **resonate** with the consumers, (2) **resonate** in the same frequency

The sound **resonates** well in this theater.

invert

v. to turn something upside down, inside out; to reverse the position, order, or relationship of something

synonym: turn upside down, reverse, flip

(1) **invert** a glass, (2) **invert** position

He decided to **invert** his investment portfolio, shifting from stocks to bonds.

micrometer

n. a tool for measuring small distances or dimensions, typically accurate to within one-thousandth of a millimeter

synonym: caliper, measuring gauge

(1) **micrometer** gauge, (2) vernier **micrometer**

The scientist used a digital **micrometer** to measure the exact thickness of the material.

phonograph

n. an early sound-reproducing machine that plays audio recordings, typically in the form of cylindrical or disc-shaped records; often referred to as an early version of the record player or gramophone

synonym: gramophone, record player, vinyl player

(1) antique **phonograph**, (2) portable **phonograph**

My grandparents used to listen to their favorite songs on the vinyl **phonograph**.

diaphragm

n. a large, dome-shaped muscle located at the bottom of the chest cavity, essential for breathing and separating the chest and abdomen; a shallow, dome-shaped device with a flexible rim that is inserted into the vagina to cover

the cervix and prevent sperm from reaching the uterus, serving as a method of birth control

synonym : midriff, pessary, shield

(1) **diaphragm** birth control, (2) **diaphragm** activity

Individuals with a weak **diaphragm** may experience difficulty breathing during physical activity.

engrave

v. to carve, cut, or etch a design, message, or image onto a surface, often using a sharp tool or laser; to permanently record or mark something in a lasting manner

synonym : carve, inscribe, etch

(1) **engrave** initials, (2) **engrave** metal

He wanted to **engrave** his wedding ring with their initials as a lasting symbol of their love.

tinfoil

n. metal made into very thin sheets that is used mainly for wrapping something such as food

synonym : aluminum foil

(1) **tinfoil** hat, (2) a sheet of **tinfoil**

To make roast beef, you need to wrap it in **tinfoil** and roast the meat in the oven for several minutes.

soundproof

v. to make a room or other enclosed space impervious to sound by reducing the transmission of sound through its walls or floor and ceiling; (adjective, of a building) not allowing sound to pass through it

synonym : insulate, muffle, dampen

(1) **soundproof** room, (2) **soundproof** material

The walls of the recording studio were **soundproofed** to eliminate outside noise.

Session 2: Spelling

1. cr__k handle *n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
2. wo___e a few steps *v.* to move or shake unsteadily from side to side or up and down
3. sou_____of material *v.* to make a room or other enclosed space impervious to sound by reducing the transmission of sound through its walls or floor and ceiling; (adjective, of a building) not allowing sound to pass through it
4. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
5. re_____te in the same frequency *v.* to be filled with a deep echoing sound
6. b__e of cotton *n.* a large bundle of goods such as cotton, hay, or paper; a bundle of goods used to weigh a product, especially wool, hay, etc
7. s__y to the rhythm *v.* to move back and forth or side to side gently, often in response to external factors such as wind or water; to influence or persuade someone to do something; to control or dominate something

ANSWERS: 1. crank, 2. wobble, 3. soundproof, 4. rev, 5. resonate, 6. bale, 7. sway

8. vi_____e with anger *v.* to move or cause anything to move fast and in small increments from side to side
9. cr_____y atmosphere *adj.* causing an uneasy feeling of fear or unease
10. si__e off the hair over the flames *v.* to burn something slightly or superficially, usually by mistake
11. en_____e metal *v.* to carve, cut, or etch a design, message, or image onto a surface, often using a sharp tool or laser; to permanently record or mark something in a lasting manner
12. teaching of Ch____t *n.* the man that Christians believe is the prophet and the son of God, and whose life and sermons form the basis for Christianity
13. am_____y a signal *v.* to enhance something, particularly sound or brightness
14. en_____e initials *v.* to carve, cut, or etch a design, message, or image onto a surface, often using a sharp tool or laser; to permanently record or mark something in a lasting manner
15. portable pho_____ph *n.* an early sound-reproducing machine that plays audio recordings, typically in the form of cylindrical or disc-shaped records; often referred to as an early version of the record player or gramophone
16. vi_____e at a regular frequency *v.* to move or cause anything to move fast and in small increments from side to side

ANSWERS: 8. vibrate, 9. creepy, 10. singe, 11. engrave, 12. Christ, 13. amplify, 14. engrave, 15. phonograph, 16. vibrate

17. a ri___e of laughter *n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
18. antique pho_____ph *n.* an early sound-reproducing machine that plays audio recordings, typically in the form of cylindrical or disc-shaped records; often referred to as an early version of the record player or gramophone
19. ma_____y the image for display *v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
20. lou_____er system *n.* an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas
21. wireless lou_____er *n.* an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas
22. s__y back and forth *v.* to move back and forth or side to side gently, often in response to external factors such as wind or water; to influence or persuade someone to do something; to control or dominate something
23. a sheet of ti_____l *n.* metal made into very thin sheets that is used mainly for wrapping something such as food

ANSWERS: 17. ripple, 18. phonograph, 19. magnify, 20. loudspeaker, 21. loudspeaker, 22. sway, 23. tinfoil

24. mic_____er gauge *n.* a tool for measuring small distances or dimensions, typically accurate to within one-thousandth of a millimeter
25. feel cr____y *adj.* causing an uneasy feeling of fear or unease
26. ma_____y the danger *v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
27. sou_____of room *v.* to make a room or other enclosed space impervious to sound by reducing the transmission of sound through its walls or floor and ceiling; (adjective, of a building) not allowing sound to pass through it
28. si__e the edges of a fabric *v.* to burn something slightly or superficially, usually by mistake
29. prevent ro____t damage *n.* a small, gnawing mammal, such as a mouse, rat, or squirrel, that has sharp incisors and typically has a long, thin tail
30. cr__k caller *n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
31. re_____ne our role *v.* to change the meaning or interpretation of something; to make people think about something in a new or different way
32. deeply re_____te with the consumers *v.* to be filled with a deep echoing sound

ANSWERS: 24. micrometer, 25. creepy, 26. magnify, 27. soundproof, 28. singe, 29. rodent, 30. crank, 31. redefine, 32. resonate

41. ti____l hat *n.* metal made into very thin sheets that is used mainly for wrapping something such as food
42. before Ch____t *n.* the man that Christians believe is the prophet and the son of God, and whose life and sermons form the basis for Christianity
43. ro____t repellent *n.* a small, gnawing mammal, such as a mouse, rat, or squirrel, that has sharp incisors and typically has a long, thin tail
44. gu____a coins *n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic
45. ri____e in the water *n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
46. vi____ze flying through space *v.* to form a mental image or concept of something; to make something visible
47. square b__e *n.* a large bundle of goods such as cotton, hay, or paper; a bundle of goods used to weigh a product, especially wool, hay, etc
48. gu____a pig *n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic
49. hu____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee

ANSWERS: 41. tinfoil, 42. Christ, 43. rodent, 44. guinea, 45. ripple, 46. visualize, 47. bale, 48. guinea, 49. humming

Session 3: Fill in the Blanks

1. 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
2. The _____ of the bees filled the air as she walked through the garden.
adj. producing a continuous, low, vibrating sound like that of the bee
3. He stepped on the gas pedal, and the engine released a loud _____.
n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
4. To make roast beef, you need to wrap it in _____ and roast the meat in the oven for several minutes.
n. metal made into very thin sheets that is used mainly for wrapping something such as food
5. The walls of the recording studio were _____ to eliminate outside noise.
v. to make a room or other enclosed space impervious to sound by reducing the transmission of sound through its walls or floor and ceiling; (adjective, of a building) not allowing sound to pass through it
6. The scientist used a digital _____ to measure the exact thickness of the material.
n. a tool for measuring small distances or dimensions, typically accurate to within one-thousandth of a millimeter
7. He wanted to _____ his wedding ring with their initials as a lasting symbol of their love.
v. to carve, cut, or etch a design, message, or image onto a surface, often using a sharp tool or laser; to permanently record or mark something in a lasting manner

ANSWERS: 1. visualize, 2. humming, 3. rev, 4. tinfoil, 5. soundproofed, 6. micrometer, 7. engrave

8. The cost of the antique vase is three _____.
- n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic
9. The old, abandoned house was _____ and gave me the chills.
- adj.* causing an uneasy feeling of fear or unease
10. The video telephony application has _____ the way we work.
- v.* to change the meaning or interpretation of something; to make people think about something in a new or different way
11. He set up a trap to catch the _____.
- n.* a small, gnawing mammal, such as a mouse, rat, or squirrel, that has sharp incisors and typically has a long, thin tail
12. You might need to _____ this point.
- v.* to enhance something, particularly sound or brightness
13. Terrorists often attempt to _____ the economic impact of their acts of destruction.
- v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
14. The table _____ a little when I put my drink on it.
- v.* to move or shake unsteadily from side to side or up and down
15. He decided to _____ his investment portfolio, shifting from stocks to bonds.
- v.* to turn something upside down, inside out; to reverse the position, order, or relationship of something

ANSWERS: 8. guineas, 9. creepy, 10. redefined, 11. rodent, 12. amplify, 13. magnify, 14. wobbled, 15. invert

16. The politician tried to _____ public opinion in his favor, but his arguments fell flat.
- v.* to move back and forth or side to side gently, often in response to external factors such as wind or water; to influence or persuade someone to do something; to control or dominate something
17. The farmer stacked the hay _____ in the barn to keep them dry.
- n.* a large bundle of goods such as cotton, hay, or paper; a bundle of goods used to weigh a product, especially wool, hay, etc
18. My grandparents used to listen to their favorite songs on the vinyl _____.
- n.* an early sound-reproducing machine that plays audio recordings, typically in the form of cylindrical or disc-shaped records; often referred to as an early version of the record player or gramophone
19. Individuals with a weak _____ may experience difficulty breathing during physical activity.
- n.* a large, dome-shaped muscle located at the bottom of the chest cavity, essential for breathing and separating the chest and abdomen; a shallow, dome-shaped device with a flexible rim that is inserted into the vagina to cover the cervix and prevent sperm from reaching the uterus, serving as a method of birth control
20. The _____ unit at the hospital specializes in caring for premature babies.
- adj.* relating to the first few weeks after birth; pertaining to newborn infants
21. The teacher spoke through the _____ so that every student could hear the announcement.
- n.* an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas

ANSWERS: 16. sway, 17. bales, 18. phonograph, 19. diaphragm, 20. neonatal, 21. loudspeaker

22. The fishing reel had a _____ that made it easy to reel in the catch.
- n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
23. _____ is the day to celebrate the birth of Christ.
- n.* the man that Christians believe is the prophet and the son of God, and whose life and sermons form the basis for Christianity
24. I didn't realize the iron was still hot and _____ my dress.
- v.* to burn something slightly or superficially, usually by mistake
25. Many businesses felt the _____ effect of the economy's decline.
- n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
26. During the flight, the wings of the plane _____.
- v.* to move or cause anything to move fast and in small increments from side to side
27. The sound _____ well in this theater.
- v.* to be filled with a deep echoing sound

ANSWERS: 22. crank, 23. Christmas, 24. singed, 25. ripple, 26. vibrate, 27. resonates