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Vocabulary Builder Reference from...

Gokul Upadhyayula: The life unfolding inside your cells, revealed in 3D | TED Talk https://www.ted.com/talks/gokul_upadhyayula_the_life_unfolding_inside_your_cells_revealed_in_3d



Advanced Words Only

IMPORTANT

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Session 1: Word List

comp

- v. short for "compensate," meaning to give goods or services to someone without asking for payment
- synonym: waive, cover, provide
- (1) **comp** their meal, (2) **comp** the employees with a bonus The casino **comped** her room and meals for being a high-rolling gambler.

paparazzi

- n. (plural of "paparazzo") a group of freelance photographers who doggedly follow, often aggressively, celebrities, public figures, or socialites to take their photographs in the hope of selling them to newspapers, magazines, or media outlets
- synonym: photographer, pap, shutterbug
- (1) **paparazzi** photos, (2) celebrity **paparazzi**The actress had to hire security to fend off the relentless **paparazzi** outside her home.

windy

- adj. characterized by or affected by strong winds; of or relating to the wind; describing a person who talks a lot, often in an exaggerated way or without saying much substance
- synonym: airy, gusty, breezy
- (1) windy hillside, (2) windy eloquence

The weather is too **windy** for us to go on a boat ride.

obsession

 the state in which a person's mind is filled with thoughts of one single object or particular person

synonym: compulsion, fixation, enthusiasm

(1) **obsession** with character, (2) national **obsession**Gambling became an **obsession** for him, and he eventually lost everything.

inanimate

adj. not having life or spirit; not animatesynonym: lifeless, inert, passive

(1) **inanimate** nature, (2) **inanimate** matter

The **inanimate** object was not capable of movement or feeling.

carbohydrate

 n. (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals

synonym: sugar, starch, cellulose

(1) complex **carbohydrate**, (2) **carbohydrate** metabolism Foods high in **carbohydrates** include bread, pasta, and rice.

biochemical

adj. relating to the chemical processes and substances that occur within living organisms

synonym: molecular, biological

(1) **biochemical** reaction, (2) complex **biochemical Biochemical** research is essential to understanding the complex chemical reactions in living organisms.

firefly

- a flying nocturnal insect common in warm regions with a tail that shines in the dark
- (1) the glow of a **firefly**, (2) sparkle like **firefly** In that country, there is a culture of eating live **firefly** squid.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

confine

- v. to restrict the movement of someone or something synonym: restrict, limit, contain
- (1) **confine** themselves solely, (2) **confine** the scope of use The animal was **confined** in a small cage.

linger

- v. to stay in a place or exist longer than expected synonym: dawdle, tarry, loiter
- (1) **linger** in the mind, (2) **linger** over your work She **lingered** for a moment before leaving the room.

infect

 to affect a person, an animal, or a plant with a disease-causing organism

synonym: pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a virus

Children often infect parents with this head cold.

rotavirus

 a virus commonly causes gastroenteritis, an inflammation of the stomach and intestines, particularly in young children. It is spread via contaminated food, water, and surfaces

synonym: gastroenteritis, stomach flu, intestinal virus

(1) **rotavirus** infection, (2) spread of **rotavirus**The symptoms of **rotavirus** include diarrhea, vomiting, and fever.

contagious

- adj. able to be passed on to others through contact or proximity, especially by infection or diseasesynonym: infectious, transmissible, communicable
- contagious enthusiasm, (2) contagious virus
 The disease is highly contagious and spreads quickly.

pathogen

 a bacterium, virus, or other microorganism that causes disease

synonym: germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

diffuse

adj. spread out widely; not concentrated in one placesynonym: spread, scatter

(1) **diffuse** bleeding, (2) **diffuse** cloud

Direct lighting is preferable to **diffuse** lighting when reading.

outsmart

v. to defeat or best someone through cleverness, cunning, or intelligence, to prevail over someone by being smarter or more strategic

synonym: outwit, beat, surpass

(1) **outsmart** the competition, (2) **outsmart** a conspiracy He could **outsmart** his opponents with his quick thinking and strategic planning.

petri

- n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
- petri dish test, (2) bacteria on petri dishes
 Glass petri dishes are used to culture microorganisms.

zebra

 a wild, horse-like mammal native to Africa with distinctive black-and-white stripes

synonym: striped horse, wild horse

(1) zebra pattern, (2) zebra crossing

The **zebra's** distinctive black and white stripes help it blend into its surroundings in the wild.

scramble

 to move or climb quickly and awkwardly, often using your hands to help you

synonym: jumble, disarrange

(1) **scramble** my mind, (2) **scramble** for support

Local business owners **scrambled** to find skilled workers.

blur

 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.

astronomer

n. a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

(1) amateur **astronomer**, (2) solar **astronomer**

This question has fascinated solar **astronomers** for decades.

turbulent

adj. marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitationsynonym: chaotic, stormy, tumultuous

(1) turbulent waves, (2) turbulent age

The stock market has been **turbulent** lately, with prices fluctuating rapidly.

vertebrate

adj. relating to animals that have a backbone or spinal column, such as mammals, birds, reptiles, amphibians, and fish

synonym: animal, chordate, backboned

(1) the muscle tissue of a **vertebrate**, (2) **vertebrate** biology The presence of a backbone is a defining characteristic of **vertebrate** animals.

commotion

n. a state of confused and noisy disturbancesynonym: disturbance, fuss, uproar

(1) a few minutes of **commotion**, (2) make **commotion**The **commotion** in the classroom made it hard for the teacher to teach.

rowdy

n. a person who behaves in a loud, rough, or disorderly manner, causing a disturbance or annoyance to otherssynonym: hooligan, troublemaker, ruffian

(1) rowdy behavior, (2) rowdy fans

The **rowdy** crowd at the concert caused a disturbance and had to be escorted out by security.

magenta

a bright, purplish-red color named after a plant that was once used to produce a dye with a similar hue
 synonym: purple-red, fuchsia

(1) magenta flowers, (2) magenta ink

The artist used **magenta** paint to make her painting pop with color.

claw

a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects

synonym: paw, talon, nail

(1) claw marks, (2) claw hammer

The bear used its **claw** to catch a fish in the river.

invade

 to enter aggressively into another's territory by military force for conquest and occupation

synonym: intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

upstage

to distract attention from someone or something else, often intentionally; to move upstage in a theater, away from the audience, thus taking a more prominent position on the stage; (adverb) at or toward the rear of the stage

synonym: outdo, overshadow, eclipse

(1) **upstage** a co-star, (2) move **upstage**

The musician's incredible solo momentarily upstaged the

lead singer.

neutrophil

n. the most common type of white blood cell in the human body, which helps the immune system by attacking and destroying harmful foreign substances, such as bacteria and viruses

synonym: white blood cell, immune cell, phagocyte

(1) **neutrophil** infiltration, (2) **neutrophil** migration High levels of **neutrophils** can indicate an infection or inflammation in the body.

smartphone

- a mobile phone that functions as a computer and connects to the Internet
- (1) **smartphone** app developer, (2) **smartphone** addict Internet traffic volumes have increased significantly with the advent of **smartphones**.

visualize

 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.

Session 2: Spelling

| 1. | et air pollution | <i>v</i> . | to give off or send out something such as light, heat, sound, gas, etc. |
|----|-----------------------------|------------|--|
| 2. | int a computer with a virus | <i>v</i> . | to affect a person, an animal, or a plant with a disease-causing organism |
| 3. | 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 |
| 4. | verte biology | adj. | relating to animals that have a backbone or spinal column, such as mammals, birds, reptiles, amphibians, and fish |
| 5. | tunt waves | adj. | marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitation |
| 6. | scle for support | ν. | to move or climb quickly and awkwardly, often using your hands to help you |
| 7. | scle my mind | ν. | to move or climb quickly and awkwardly, often using your hands to help you |
| 8. | maa flowers | n. | a bright, purplish-red color named after a plant that was once used to produce a dye with a similar hue |
| 9. | a few minutes of coon | n. | a state of confused and noisy |

ANSWERS: 1. emit, 2. infect, 3. blur, 4. vertebrate, 5. turbulent, 6. scramble, 7. scramble, 8. magenta, 9. commotion

disturbance

ANSWERS: 10. visualize, 11. invade, 12. outsmart, 13. confine, 14. smartphone, 15. commotion, 16. carbohydrate, 17. diffuse, 18. biochemical, 19. smartphone, 20. upstage

stage

the audience, thus taking a more prominent position on the stage; (adverb) at or toward the rear of the

ANSWERS: 21. contagious, 22. invade, 23. vertebrate, 24. outsmart, 25. claw, 26. inanimate, 27. rowdy, 28. linger, 29. emit

ν.

as light, heat, sound, gas, etc.

29. e ta gamma ray

| | young children. It is spread via contaminated food, water, and surfaces |
|------------------|---|
| 31. die bleeding | adj. spread out widely; not concentrated in one place |

- n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
 - n. a physicist who studies astronomy
 - v. to stay in a place or exist longer than expected
- n. a physicist who studies astronomy
- v. to restrict the movement of someone or something
- n. a virus commonly causes gastroenteritis, an inflammation of the stomach and intestines, particularly in young children. It is spread via contaminated food, water, and surfaces
- adj. marked by a lot of sudden changes,confusion, or uncertainty; characterizedby intense activity or agitation
- n. (plural of "paparazzo") a group of freelance photographers who doggedly follow, often aggressively, celebrities, public figures, or socialites to take their photographs in the hope of selling them to newspapers, magazines, or media outlets

31. di___e bleeding
32. pe__i dish test

33. solar ast___er
34. li__r over your work

35. amateur ast__er
36. co___e themselves solely

37. spread of ro___us

38. tu____nt age

39. celebrity pa zi

ANSWERS: 30. rotavirus, 31. diffuse, 32. petri, 33. astronomer, 34. linger, 35. astronomer, 36. confine, 37. rotavirus, 38. turbulent, 39. paparazzi

ANSWERS: 40. windy, 41. comp, 42. zebra, 43. paparazzi, 44. windy, 45. firefly, 46. upstage

ANSWERS: 47. neutrophil, 48. obsession, 49. rowdy, 50. obsession, 51. visualize, 52. firefly, 53. contagious, 54. neutrophil, 55. inanimate, 56. infect

| 57. zea crossing | n. | a wild, horse-like mammal native to Africa with distinctive black-and-white stripes |
|-----------------------------------|------|---|
| 58. the paen in the air | n. | a bacterium, virus, or other microorganism that causes disease |
| 59. cp the employees with a bonus | ν. | short for "compensate," meaning to give goods or services to someone without asking for payment |
| 60. complex carate | n. | (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals |
| 61. plant paen | n. | a bacterium, virus, or other microorganism that causes disease |
| 62. complex bioal | adj. | relating to the chemical processes and substances that occur within living organisms |
| 63. maa ink | n. | a bright, purplish-red color named after a plant that was once used to produce a dye with a similar hue |
| 64. c_w hammer | n. | a curved, pointed appendage found on the foot or leg of an animal, used for gripping or grasping; a human hand with long, narrow fingers that are curved like a claw; a machine or tool with a claw-like opening used for gripping or lifting objects |
| 65. bacteria on pei dishes | n. | (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria |

ANSWERS: 57. zebra, 58. pathogen, 59. comp, 60. carbohydrate, 61. pathogen, 62. biochemical, 63. magenta, 64. claw, 65. petri

66. 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

ANSWERS: 66. blur

Session 3: Fill in the Blanks

| 1. | Children often parents with this head cold. |
|------------|--|
| <i>v</i> . | to affect a person, an animal, or a plant with a disease-causing organism |
| 2. | The musician's incredible solo momentarily the lead singer. |
| <i>v</i> . | to distract attention from someone or something else, often intentionally; to move upstage in a theater, away from the audience, thus taking a more prominent position on the stage; (adverb) at or toward the rear of the stage |
| 3. | The crowd at the concert caused a disturbance and had to be escorted out by security. |
| n. | a person who behaves in a loud, rough, or disorderly manner, causing a disturbance or annoyance to others |
| 4. | She for a moment before leaving the room. |
| <i>v</i> . | to stay in a place or exist longer than expected |
| 5. | He could his opponents with his quick thinking and strategic planning |
| ν. | to defeat or best someone through cleverness, cunning, or intelligence, to prevail over someone by being smarter or more strategic |
| 6. | The casino her room and meals for being a high-rolling gambler. |
| <i>v</i> . | short for "compensate," meaning to give goods or services to someone without asking for payment |
| 7. | The presence of a backbone is a defining characteristic of animals. |
| adj | relating to animals that have a backbone or spinal column, such as mammals, birds, reptiles, amphibians, and fish |
| | SWERS: 1. infect, 2. upstaged, 3. rowdy, 4. lingered, 5. outsmart, 6. comped, 7. tebrate |

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magenta, 22. contagious, 23. neutrophils

ANSWERS: 24. smartphones, 25. pathogens, 26. astronomers, 27. invade, 28.

| Vocab-Builder Ref from "Gokul Upadhyayula: The life unfolding inside your cells, revealed in 3D TED Talk" (33 words) |
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| turbulent, 29. visualize, 30. claw, 31. paparazzi |
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| Vocab-Builder Ref from "Gokul Upadhyayula: The life unfolding inside your cells, revealed in 3D TED Talk" (33 words) | | |
|--|---|--|
| 32. v. | The animal was in a small cage. to restrict the movement of someone or something | |
| 33. | During the unloading, the container box a clicking sound. | |
| v. | to give off or send out something such as light, heat, sound, gas, etc. | |

ANSWERS: 32. confined, 33. emits