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Vocabulary Builder Reference from...

Kanawat Senanan: How do hard drives work? | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym : infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

magnetize

v. to attract or draw someone or something towards oneself, often metaphorically; to make something magnetic

synonym : attract, captivate, charm

(1) **magnetize** a metal object, (2) **magnetize** a large number of potential buyers

The new advertising campaign aims to **magnetize** a younger audience.

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**.

lithograph

n. a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

synonym: print, etching, engraving

(1) **lithograph** print, (2) limited edition **lithograph**

The art gallery showcased a collection of colorful **lithographic** prints by renowned artists.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

cram

v. to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space

synonym: stuff, pack, jam

(1) **cram** more circuits into chips, (2) **cram** five people into a car

She had to **cram** for the final exam and stayed up all night studying.

concierge

n. an employee or staff member, often found in hotels or residential buildings, who assists guests or residents with various services, such as making reservations, providing information or recommendations, arranging transportation, or handling special requests

synonym: caretaker, attendant, hotelier

(1) **concierge** desk, (2) personal **concierge**

The **concierge** at the hotel was able to provide excellent recommendations for local restaurants.

disturb

v. to interrupt someone who is trying to work, sleep, etc.

synonym: agitate, bother, intrude

(1) **disturb** the peace, (2) **disturb** his sleep

Tourists frequently **disturb** the island's delicate natural balance.

unintentional

adj. not done or made on purpose; accidental

synonym: accidental, unforeseen, spontaneous

(1) avoid **unintentional** harm, (2) **unintentional** insult

The mistake was **unintentional** and made in good faith.

perpendicular

adj. forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon

synonym: vertical, upright, standing

(1) **perpendicular** angles, (2) **perpendicular** walls

The two lines were perfectly **perpendicular** to each other.

momentary

adj. lasting for only a brief moment or an extremely short period of time; occurring momentarily

synonym: fleeting, temporary, brief

(1) **momentary** pause, (2) **momentary** distraction

The **momentary** lapse in concentration caused her to miss the crucial shot.

physicist

n. a scientist who specializes in the field of physics

(1) talented **physicist**, (2) theoretical **physicist**

Einstein was an outstanding and famous **physicist** of the 20th century.

Session 2: Spelling

1. talented ph_____st *n.* a scientist who specializes in the field of physics
2. 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
3. ma_____ze a metal object *v.* to attract or draw someone or something towards oneself, often metaphorically; to make something magnetic
4. lit_____ph print *n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design
5. c__m five people into a car *v.* to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space
6. per_____lar walls *adj.* forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon
7. limited edition lit_____ph *n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

ANSWERS: 1. physicist, 2. phonograph, 3. magnetize, 4. lithograph, 5. cram, 6. perpendicular, 7. lithograph

8. di_____b his sleep *v.* to interrupt someone who is trying to work, sleep, etc.
9. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
10. per_____lar angles *adj.* forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon
11. ma_____ze a large number of potential buyers *v.* to attract or draw someone or something towards oneself, often metaphorically; to make something magnetic
12. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
13. di_____b the peace *v.* to interrupt someone who is trying to work, sleep, etc.
14. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
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. avoid uni_____nal harm *adj.* not done or made on purpose; accidental
17. uni_____nal insult *adj.* not done or made on purpose; accidental
18. mo_____ry distraction *adj.* lasting for only a brief moment or an extremely short period of time; occurring momentarily

ANSWERS: 8. disturb, 9. nanoscale, 10. perpendicular, 11. magnetize, 12. microscopic, 13. disturb, 14. microscopic, 15. phonograph, 16. unintentional, 17. unintentional, 18. momentary

19. co_____ge desk *n.* an employee or staff member, often found in hotels or residential buildings, who assists guests or residents with various services, such as making reservations, providing information or recommendations, arranging transportation, or handling special requests
20. c__m more circuits into chips *v.* to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space
21. theoretical ph_____st *n.* a scientist who specializes in the field of physics
22. personal co_____ge *n.* an employee or staff member, often found in hotels or residential buildings, who assists guests or residents with various services, such as making reservations, providing information or recommendations, arranging transportation, or handling special requests
23. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
24. mo_____ry pause *adj.* lasting for only a brief moment or an extremely short period of time; occurring momentarily

ANSWERS: 19. concierge, 20. cram, 21. physicist, 22. concierge, 23. nanoscale, 24. momentary

Session 3: Fill in the Blanks

1. The two lines were perfectly _____ to each other.
adj. forming, situated at, or being at a right angle to a given line or plane; upright or vertical; at right angles to the horizon
2. She had to _____ for the final exam and stayed up all night studying.
v. to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space
3. The art gallery showcased a collection of colorful _____ prints by renowned artists.
n. a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design
4. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
5. The new advertising campaign aims to _____ a younger audience.
v. to attract or draw someone or something towards oneself, often metaphorically; to make something magnetic
6. Inspectors noticed _____ cracks in the submarine's hull.
adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy
7. The _____ at the hotel was able to provide excellent recommendations for local restaurants.
n. an employee or staff member, often found in hotels or residential buildings, who assists guests or residents with various services, such as making reservations, providing information or recommendations, arranging transportation, or handling special requests

ANSWERS: 1. perpendicular, 2. cram, 3. lithographic, 4. nanoscale, 5. magnetize, 6. microscopic, 7. concierge

8. Tourists frequently _____ the island's delicate natural balance.
v. to interrupt someone who is trying to work, sleep, etc.
9. The _____ lapse in concentration caused her to miss the crucial shot.
adj. lasting for only a brief moment or an extremely short period of time; occurring momentarily
10. The mistake was _____ and made in good faith.
adj. not done or made on purpose; accidental
11. 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
12. Einstein was an outstanding and famous _____ of the 20th century.
n. a scientist who specializes in the field of physics

ANSWERS: 8. disturb, 9. momentary, 10. unintentional, 11. phonograph, 12. physicist