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Vocabulary Builder Reference from...

Dustin Schroeder: How we look kilometers below the Antarctic ice sheet | TED Talk

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

Advanced Words Only

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Session 1: Word List

glaciologist

n. a scientist who studies the formation, movement, and effects of glaciers and ice

synonym : ice scientists, cryospheric scientists

(1) **glaciologist** findings, (2) **glaciologist** fieldwork

The **glaciologist's** research revealed that the glacier has been shrinking alarmingly.

glacier

n. a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

synonym : iceberg, ice floe

(1) **glacier** retreat, (2) **glaciers** move tardily

The **glaciers** of the ice age have shaped Fjord.

caveat

n. a warning against certain acts; (law) a formal notice filed with a court or officer to suspend a proceeding until the filer is given a hearing

synonym : warning, caution, admonition

(1) a **caveat** against unfair practices, (2) general **caveat**

We often ignore important **caveats** from nature.

subsurface

adj. situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the

Earth's surface

synonym : beneath the surface, underground, subterranean

(1) **subsurface** mining, (2) **subsurface** oil reserves

The **subsurface** layers of the ocean are still largely unexplored.

timescale

n. a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process

synonym : time frame, schedule, duration

(1) long- **timescale**, (2) realistic **timescale**

The **timescale** for completing the construction project is three years.

airborne

adj. moved or conveyed by or through the air; in the air

synonym : flying, aerial, floating

(1) **airborne** troop, (2) **airborne** particles

The amount of **airborne** pollen this year is higher than usual.

penetrating

adj. able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion

synonym : keen, piercing, sharp

(1) **penetrating** gaze, (2) **penetrating** analysis

The **penetrating** smell of freshly brewed coffee filled the room.

bulge

v. to protrude or extend outward

synonym : protrude, swell, expand

(1) **bulge** at the enterprise, (2) **bulge** with books

The muscles in his arm **bulged** as he lifted the heavyweights.

misconception

n. a belief or an idea that is wrong because it has been based on faulty thinking, understanding, or hypothesis

synonym : fallacy, incomprehension, misunderstanding

(1) dispel the **misconception**, (2) commonly held **misconception**

There are numerous **misconceptions** about food and health.

fieldwork

n. real-world research or study conducted outside a library or laboratory.

(1) meticulous **fieldwork**, (2) perform **fieldwork**

Numerous instances from **fieldwork** show these hypotheses in great detail.

contemplate

v. to think about a possible future action or to think about something for a long time thoughtfully

synonym: think over, ponder, consider

(1) **contemplate** a marriage, (2) **contemplated** leaving school

I recently **contemplated** dropping out of school and getting a full-time job.

videotape

n. a type of magnetic tape used for recording and storing video images and sound; a recording made on such tape

synonym: videocassette, tape, recording

(1) **videotape** evidence, (2) rewind **videotape**

We watched a **videotape** of our family vacation from years ago.

knob

n. a round handle, especially one used for opening or closing a door, drawer, or cabinet

synonym: handle, lever

(1) handy **knob**, (2) **knob** closure

The **knob** on the drawer was loose and needed to be tightened.

bedrock

n. the solid rock underlying soil or alluvium

synonym: foundation, foundation stone, base

(1) **bedrock** foundation, (2) **bedrock** geology

The **bedrock** beneath the soil is extremely solid and stable.

heroic

adj. courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring

synonym : brave, courageous, daring

(1) a **heroic** poem, (2) **heroic** explorers

The **heroic** actions of individuals are now easily spread worldwide by SNS.

volcano

n. a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.

synonym : mount, peak, crater

(1) **volcano** alert level, (2) active **volcano**

The island was formed by a **volcano** millions of years ago.

remaster

v. to modify, enhance, or improve the quality of a previously recorded audio or video work, typically by using more advanced technology or techniques; (noun) the process of adjusting the audio levels, cleaning up noise or imperfections, and optimizing overall sound or picture quality

synonym : remix, restore, enhance

(1) **remaster** edition, (2) **remaster** a film

The band decided to **remaster** their debut album for its 20th anniversary.

bury

v. to place a dead body in the ground, grave, or tomb

synonym : entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

zigzag

adj. having short sharp turns or angles

synonym : bent, crinkled, crooked

(1) **zigzag** sewing machine, (2) a **zigzag** line

We had to go through a **zigzag** course.

geophysical

adj. relating to the physical characteristics and processes of the Earth and its surrounding atmospheres, such as geology, meteorology, and oceanography

synonym : geologic, earth science, seismic

(1) **geophysical** exploration, (2) **geophysical** data

Geophysical surveys study the physical characteristics of the Earth's surface and subsurface.

industrious

adj. hardworking, diligent, and persistent in effort

synonym : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

detonate

v. to explode or cause to explode; to set off a sudden or dramatic series of events

synonym : explode, blow up, ignite

(1) **detonate** a missile, (2) **detonate** a plan

The bomb squad had to **detonate** the suspicious package found at the train station.

dynamite

n. a powerful explosive made from nitroglycerin, typically used in construction and mining; something that causes strong, sudden reactions or changes

synonym : explosives, blasting powder, TNT

(1) **dynamite-powered** engine, (2) **dynamite** fishing

The sound of the **dynamite** explosion could be heard for miles.

fabricate

v. to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone

synonym : manufacture, assemble, falsify

(1) **fabricate** a chemical, (2) **fabricate** an excuse

The detective discovered that the witness had **fabricated** her story about the crime.

cryosphere

n. the frozen part of the Earth's surface, including snow, ice, glaciers, icebergs, and permafrost

synonym: ice cover, frozen ground, polar ice

(1) retreat of **cryosphere**, (2) **cryosphere** research

Climate change is causing rapid melting of the **cryosphere**, which has far-reaching consequences.

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.

Session 2: Spelling

1. a ca___t against unfair practices *n.* a warning against certain acts; (law) a formal notice filed with a court or officer to suspend a proceeding until the filer is given a hearing
2. sub_____ce mining *adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
3. gl_____r retreat *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
4. fa_____te a chemical *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
5. de_____te a missile *v.* to explode or cause to explode; to set off a sudden or dramatic series of events
6. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
7. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
8. de_____te a plan *v.* to explode or cause to explode; to set off a sudden or dramatic series of events

ANSWERS: 1. caveat, 2. subsurface, 3. glacier, 4. fabricate, 5. detonate, 6. bury, 7. industrious, 8. detonate

9. cry_____re research *n.* the frozen part of the Earth's surface, including snow, ice, glaciers, icebergs, and permafrost
10. fa_____te an excuse *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
11. k__b closure *n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet
12. gl_____rs move tardily *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
13. a he___c poem *adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
14. geo_____al data *adj.* relating to the physical characteristics and processes of the Earth and its surrounding atmospheres, such as geology, meteorology, and oceanography
15. rewind vi_____pe *n.* a type of magnetic tape used for recording and storing video images and sound; a recording made on such tape
16. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
17. handy k__b *n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet

ANSWERS: 9. cryosphere, 10. fabricate, 11. knob, 12. glacier, 13. heroic, 14. geophysical, 15. videotape, 16. opportune, 17. knob

18. active vo____o *n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
19. ai____ne troop *adj.* moved or conveyed by or through the air; in the air
20. dispel the mis_____ion *n.* a belief or an idea that is wrong because it has been based on faulty thinking, understanding, or hypothesis
21. ind_____us student *adj.* hardworking, diligent, and persistent in effort
22. be____k foundation *n.* the solid rock underlying soil or alluvium
23. bu__e at the enterprise *v.* to protrude or extend outward
24. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
25. bu__e with books *v.* to protrude or extend outward
26. zi___g sewing machine *adj.* having short sharp turns or angles
27. vo____o alert level *n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
28. general ca____t *n.* a warning against certain acts; (law) a formal notice filed with a court or officer to suspend a proceeding until the filer is given a hearing

ANSWERS: 18. volcano, 19. airborne, 20. misconception, 21. industrious, 22. bedrock, 23. bulge, 24. opportune, 25. bulge, 26. zigzag, 27. volcano, 28. caveat

29. re_____er a film
- v. to modify, enhance, or improve the quality of a previously recorded audio or video work, typically by using more advanced technology or techniques; (noun) the process of adjusting the audio levels, cleaning up noise or imperfections, and optimizing overall sound or picture quality
30. sub_____ce oil reserves
- adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
31. con_____ted leaving school
- v. to think about a possible future action or to think about something for a long time thoughtfully
32. pen_____ng gaze
- adj.* able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion
33. vi_____pe evidence
- n.* a type of magnetic tape used for recording and storing video images and sound; a recording made on such tape
34. he___c explorers
- adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
35. gla_____ist findings
- n.* a scientist who studies the formation, movement, and effects of glaciers and ice

ANSWERS: 29. remaster, 30. subsurface, 31. contemplate, 32. penetrating, 33. videotape, 34. heroic, 35. glaciologist

36. re_____er edition
- v. to modify, enhance, or improve the quality of a previously recorded audio or video work, typically by using more advanced technology or techniques; (noun) the process of adjusting the audio levels, cleaning up noise or imperfections, and optimizing overall sound or picture quality
37. long-ti_____le
- n. a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
38. be_____k geology
- n. the solid rock underlying soil or alluvium
39. realistic ti_____le
- n. a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
40. retreat of cry_____re
- n. the frozen part of the Earth's surface, including snow, ice, glaciers, icebergs, and permafrost
41. commonly held mis_____ion
- n. a belief or an idea that is wrong because it has been based on faulty thinking, understanding, or hypothesis
42. gla_____ist fieldwork
- n. a scientist who studies the formation, movement, and effects of glaciers and ice

ANSWERS: 36. remaster, 37. timescale, 38. bedrock, 39. timescale, 40. cryosphere, 41. misconception, 42. glaciologist

43. a zi___g line *adj.* having short sharp turns or angles
44. dy_____te-powered engine *n.* a powerful explosive made from nitroglycerin, typically used in construction and mining; something that causes strong, sudden reactions or changes
45. geo_____al exploration *adj.* relating to the physical characteristics and processes of the Earth and its surrounding atmospheres, such as geology, meteorology, and oceanography
46. meticulous fi_____rk *n.* real-world research or study conducted outside a library or laboratory.
47. pen_____ng analysis *adj.* able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion
48. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
49. con_____te a marriage *v.* to think about a possible future action or to think about something for a long time thoughtfully
50. perform fi_____rk *n.* real-world research or study conducted outside a library or laboratory.
51. ai_____ne particles *adj.* moved or conveyed by or through the air; in the air
52. dy_____te fishing *n.* a powerful explosive made from nitroglycerin, typically used in construction and mining; something that causes strong, sudden reactions or changes

ANSWERS: 43. zigzag, 44. dynamite, 45. geophysical, 46. fieldwork, 47. penetrating, 48. bury, 49. contemplate, 50. fieldwork, 51. airborne, 52. dynamite

ANSWERS:

Session 3: Fill in the Blanks

1. We often ignore important _____ from nature.
n. a warning against certain acts; (law) a formal notice filed with a court or officer to suspend a proceeding until the filer is given a hearing

2. The _____ actions of individuals are now easily spread worldwide by SNS.
adj. courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring

3. The _____ layers of the ocean are still largely unexplored.
adj. situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface

4. The band decided to _____ their debut album for its 20th anniversary.
v. to modify, enhance, or improve the quality of a previously recorded audio or video work, typically by using more advanced technology or techniques; (noun) the process of adjusting the audio levels, cleaning up noise or imperfections, and optimizing overall sound or picture quality

5. The _____ beneath the soil is extremely solid and stable.
n. the solid rock underlying soil or alluvium

6. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort

7. We watched a _____ of our family vacation from years ago.
n. a type of magnetic tape used for recording and storing video images and sound; a recording made on such tape

ANSWERS: 1. caveats, 2. heroic, 3. subsurface, 4. remaster, 5. bedrock, 6. industrious, 7. videotape

8. _____ surveys study the physical characteristics of the Earth's surface and subsurface.
adj. relating to the physical characteristics and processes of the Earth and its surrounding atmospheres, such as geology, meteorology, and oceanography
9. The bomb squad had to _____ the suspicious package found at the train station.
v. to explode or cause to explode; to set off a sudden or dramatic series of events
10. We had to go through a _____ course.
adj. having short sharp turns or angles
11. The _____ for completing the construction project is three years.
n. a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
12. The island was formed by a _____ millions of years ago.
n. a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
13. The sound of the _____ explosion could be heard for miles.
n. a powerful explosive made from nitroglycerin, typically used in construction and mining; something that causes strong, sudden reactions or changes
14. The amount of _____ pollen this year is higher than usual.
adj. moved or conveyed by or through the air; in the air
15. There are numerous _____ about food and health.
n. a belief or an idea that is wrong because it has been based on faulty thinking, understanding, or hypothesis

ANSWERS: 8. Geophysical, 9. detonate, 10. zigzag, 11. timescale, 12. volcano, 13. dynamite, 14. airborne, 15. misconceptions

16. There is plenty of space to _____ everyone.

v. to place a dead body in the ground, grave, or tomb

17. The _____ smell of freshly brewed coffee filled the room.

adj. able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion

18. Climate change is causing rapid melting of the _____ which has far-reaching consequences.

n. the frozen part of the Earth's surface, including snow, ice, glaciers, icebergs, and permafrost

19. The _____ of the ice age have shaped Fjord.

n. a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

20. The detective discovered that the witness had _____ her story about the crime.

v. to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone

21. I recently _____ dropping out of school and getting a full-time job.

v. to think about a possible future action or to think about something for a long time thoughtfully

22. The _____ research revealed that the glacier has been shrinking alarmingly.

n. a scientist who studies the formation, movement, and effects of glaciers and ice

ANSWERS: 16. bury, 17. penetrating, 18. cryosphere, 19. glaciers, 20. fabricated, 21. contemplated, 22. glaciologist's

23. The _____ on the drawer was loose and needed to be tightened.

n. a round handle, especially one used for opening or closing a door, drawer, or cabinet

24. The muscles in his arm _____ as he lifted the heavyweights.

v. to protrude or extend outward

25. Numerous instances from _____ show these hypotheses in great detail.

n. real-world research or study conducted outside a library or laboratory.

26. The phone rang at the most _____ time.

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

ANSWERS: 23. knob, 24. bulged, 25. fieldwork, 26. opportune