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Vocabulary Builder Reference from...

Kristin Poinar: What's hidden under the Greenland ice sheet? | TED Talk

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

Advanced Words Only

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Session 1: Word List

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.

repurpose

v. to use something again for a different purpose than it was originally intended

synonym : reutilize, recycle, reuse

(1) **repurpose** an old building, (2) **repurpose** a used car

The old barn was **repurposed** into a modern event space.

uncover

v. to remove the cover from something; to discover something previously unseen or hidden

synonym : disclose, reveal, unveil

(1) **uncover** a potential problem, (2) **uncover** the truth

He continued his investigation and soon **uncovered** another crime.

downhill

adv. in a direction that is downward or from a higher to a lower point; in a progressively worse or deteriorating manner

synonym : downslope

(1) ski **downhill**, (2) walk **downhill** to the beach

The family's finances have been going **downhill** since they lost their main source of income.

deform

v. to change or distort the shape or appearance of something; to become misshapen or distorted

synonym: distort, contort, mangle

(1) **deform** the shape, (2) **deform** his way of life

The heat from the fire **deformed** the plastic parts of the appliance.

smartphone

n. 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**.

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**.

snowfall

n. a fall of snow; the amount of snow falling within a particular area in a specific time

synonym: snow, blizzard, gale

(1) the first **snowfall** of the season, (2) **snowfall** prediction

Several roads have been closed due to the heavy **snowfall**.

stun

v. to make a person or an animal unconscious or dizzy, especially by hitting them on the head; to make someone surprised or shocked greatly

synonym: shock, amaze, astound

(1) **stun** fish, (2) **stun** an audience

This sprinter **stunned** the world with his speed.

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.

drown

v. to die or cause to die by being unable to breathe underwater

synonym: douse, drench, overwhelm

(1) **drown** in a bath, (2) I was **drowned** in work

Floods have the potential to **drown** any subsurface animals easily.

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.

canyon

n. a large deep valley with very steep sides of rock and usually formed by a river

synonym: gorge, valley, ravine

(1) twisty **canyon** road, (2) **canyon** of skyscrapers

The Grand **Canyon** has an awe-inspiring sight.

funnel

n. a tube or pipe that is wide at the top, sloping sides, narrow at the bottom, used for pouring liquids or powders into a small opening; a smokestack on a ship or steam engine

synonym: filter, chimney

(1) separatory **funnel**, (2) a **funnel-shaped** device

We have to use a **funnel** to pour petrol into the tank.

aquifer

n. an underground layer of rock, sand, or Earth that can take in and hold water

(1) **aquifer** soil, (2) subsurface **aquifer**

Some areas melt snow by harnessing heat from underground **aquifers**.

trickle

v. to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

synonym: dribble, flow, seep

(1) **trickle** down my cheek, (2) **trickle** from his eyes

Water was beginning to **trickle** into the basement after the heavy rain.

puddle

n. a small pool of water, especially on a flat surface; a small and usually shallow accumulation of any liquid substance

synonym: pool, pond, small lake

(1) **puddle** of water, (2) step in a **puddle**

The rain had formed a large **puddle** on the sidewalk.

igloo

n. a dome-shaped snow house or shelter commonly used by indigenous people of the Arctic regions, such as the Inuit, traditionally constructed with blocks of compacted snow or ice

synonym: snow house, snow hut

(1) **igloo** construction, (2) **igloo** village

During the winter months, the Inuit people of the Arctic often lived inside an **igloo** to survive the harsh climate.

insulate

v. to protect something by interposing material that prevents heat, noise, electricity, etc.

synonym: isolate, protect, seclude

(1) **insulate** the room from sound, (2) **insulate** electricity

We had our bedroom **insulated** before winter came.

doe

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym: rabbit, bunny, hare

(1) **doe** rabbit, (2) buck and **doe**

Hunters use a whistle that makes the **doe** sound to lure stags.

crevasse

n. a deep crack or fissure, especially in a glacier or the Earth's surface, often caused by stress or movement; a dangerous and treacherous gap or opening

synonym: crevice, fissure, gap

(1) fall into a **crevasse**, (2) dangerous **crevasse**

The mountaineer carefully crossed the glacier **crevasse** to continue climbing the icy peak.

frack

v. to inject water and chemicals into the ground at high pressure to fracture the rock and release the gas or oil, especially to extract them

synonym: extract, drill, mine

(1) **frack** the land, (2) **frack** multiple wells

The energy company plans to **frack** the shale deposit to extract natural gas.

supercomputer

n. a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing

synonym: high-performance computer, mainframe, giant computer

(1) **supercomputer** performance, (2) **supercomputer** technology

China has developed one of the world's fastest **supercomputers** for its space program.

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.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

Session 2: Spelling

- | | |
|----------------------------------|--|
| 1. gla_____ist findings | <i>n.</i> a scientist who studies the formation, movement, and effects of glaciers and ice |
| 2. de___m his way of life | <i>v.</i> to change or distort the shape or appearance of something; to become misshapen or distorted |
| 3. tr_____e from his eyes | <i>v.</i> to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities |
| 4. aq_____r soil | <i>n.</i> an underground layer of rock, sand, or Earth that can take in and hold water |
| 5. in_____te the room from sound | <i>v.</i> to protect something by interposing material that prevents heat, noise, electricity, etc. |
| 6. long-ti_____le | <i>n.</i> 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 |
| 7. fall into a cr_____se | <i>n.</i> a deep crack or fissure, especially in a glacier or the Earth's surface, often caused by stress or movement; a dangerous and treacherous gap or opening |
| 8. I was dr__ned in work | <i>v.</i> to die or cause to die by being unable to breathe underwater |

ANSWERS: 1. glaciologist, 2. deform, 3. trickle, 4. aquifer, 5. insulate, 6. timescale, 7. crevasse, 8. drown

9. twisty ca___n road *n.* a large deep valley with very steep sides of rock and usually formed by a river
10. re_____se a used car *v.* to use something again for a different purpose than it was originally intended
11. re_____se an old building *v.* to use something again for a different purpose than it was originally intended
12. be_____k geology *n.* the solid rock underlying soil or alluvium
13. be_____k foundation *n.* the solid rock underlying soil or alluvium
14. gl_____r retreat *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
15. walk do_____ll to the beach *adv.* in a direction that is downward or from a higher to a lower point; in a progressively worse or deteriorating manner
16. 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
17. step in a pu___e *n.* a small pool of water, especially on a flat surface; a small and usually shallow accumulation of any liquid substance
18. ig__o village *n.* a dome-shaped snow house or shelter commonly used by indigenous people of the Arctic regions, such as the Inuit, traditionally constructed with blocks of compacted snow or ice
19. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

ANSWERS: 9. canyon, 10. repurpose, 11. repurpose, 12. bedrock, 13. bedrock, 14. glacier, 15. downhill, 16. glacier, 17. puddle, 18. igloo, 19. centimeter

20. un____r a potential problem *v.* to remove the cover from something; to discover something previously unseen or hidden
21. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
22. d_e rabbit *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
23. sup_____ter technology *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
24. separatory fu___l *n.* a tube or pipe that is wide at the top, sloping sides, narrow at the bottom, used for pouring liquids or powders into a small opening; a smokestack on a ship or steam engine
25. r_v up the crowd *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
26. 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
27. s__n an audience *v.* to make a person or an animal unconscious or dizzy, especially by hitting them on the head; to make someone surprised or shocked greatly

ANSWERS: 20. uncover, 21. smartphone, 22. doe, 23. supercomputer, 24. funnel, 25. rev, 26. rev, 27. stun

28. fr__k multiple wells *v.* to inject water and chemicals into the ground at high pressure to fracture the rock and release the gas or oil, especially to extract them
29. 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
30. un_____r the truth *v.* to remove the cover from something; to discover something previously unseen or hidden
31. pu___e of water *n.* a small pool of water, especially on a flat surface; a small and usually shallow accumulation of any liquid substance
32. subsurface aq_____r *n.* an underground layer of rock, sand, or Earth that can take in and hold water
33. s__n fish *v.* to make a person or an animal unconscious or dizzy, especially by hitting them on the head; to make someone surprised or shocked greatly
34. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
35. tr_____e down my cheek *v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
36. a fu___l-shaped device *n.* a tube or pipe that is wide at the top, sloping sides, narrow at the bottom, used for pouring liquids or powders into a small opening; a smokestack on a ship or steam engine

ANSWERS: 28. frack, 29. timescale, 30. uncover, 31. puddle, 32. aquifer, 33. stun, 34. smartphone, 35. trickle, 36. funnel

37. ig__o construction *n.* a dome-shaped snow house or shelter commonly used by indigenous people of the Arctic regions, such as the Inuit, traditionally constructed with blocks of compacted snow or ice
38. sup_____ter performance *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
39. ca___n of skyscrapers *n.* a large deep valley with very steep sides of rock and usually formed by a river
40. de___m the shape *v.* to change or distort the shape or appearance of something; to become misshapen or distorted
41. gla_____ist fieldwork *n.* a scientist who studies the formation, movement, and effects of glaciers and ice
42. fr__k the land *v.* to inject water and chemicals into the ground at high pressure to fracture the rock and release the gas or oil, especially to extract them
43. ski do_____ll *adv.* in a direction that is downward or from a higher to a lower point; in a progressively worse or deteriorating manner
44. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

ANSWERS: 37. igloo, 38. supercomputer, 39. canyon, 40. deform, 41. glaciologist, 42. frack, 43. downhill, 44. centimeter

45. sn____ll prediction *n.* a fall of snow; the amount of snow falling within a particular area in a specific time
46. dangerous cr____se *n.* a deep crack or fissure, especially in a glacier or the Earth's surface, often caused by stress or movement; a dangerous and treacherous gap or opening
47. the first sn____ll of the season *n.* a fall of snow; the amount of snow falling within a particular area in a specific time
48. in____te electricity *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.
49. dr__n in a bath *v.* to die or cause to die by being unable to breathe underwater
50. buck and d_e *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

ANSWERS: 45. snowfall, 46. crevasse, 47. snowfall, 48. insulate, 49. drown, 50. doe

Session 3: Fill in the Blanks

1. During the winter months, the Inuit people of the Arctic often lived inside an _____ to survive the harsh climate.
 - n.* a dome-shaped snow house or shelter commonly used by indigenous people of the Arctic regions, such as the Inuit, traditionally constructed with blocks of compacted snow or ice

2. The family's finances have been going _____ since they lost their main source of income.
 - adv.* in a direction that is downward or from a higher to a lower point; in a progressively worse or deteriorating manner

3. The Grand _____ has an awe-inspiring sight.
 - n.* a large deep valley with very steep sides of rock and usually formed by a river

4. Water was beginning to _____ into the basement after the heavy rain.
 - v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

5. The mountaineer carefully crossed the glacier _____ to continue climbing the icy peak.
 - n.* a deep crack or fissure, especially in a glacier or the Earth's surface, often caused by stress or movement; a dangerous and treacherous gap or opening

6. 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

ANSWERS: 1. igloo, 2. downhill, 3. Canyon, 4. trickle, 5. crevasse, 6. rev

7. 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
8. Floods have the potential to _____ any subsurface animals easily.
- v.* to die or cause to die by being unable to breathe underwater
9. The _____ research revealed that the glacier has been shrinking alarmingly.
- n.* a scientist who studies the formation, movement, and effects of glaciers and ice
10. Hunters use a whistle that makes the ____ sound to lure stags.
- n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
11. This sprinter _____ the world with his speed.
- v.* to make a person or an animal unconscious or dizzy, especially by hitting them on the head; to make someone surprised or shocked greatly
12. The energy company plans to _____ the shale deposit to extract natural gas.
- v.* to inject water and chemicals into the ground at high pressure to fracture the rock and release the gas or oil, especially to extract them
13. We had our bedroom _____ before winter came.
- v.* to protect something by interposing material that prevents heat, noise, electricity, etc.
14. Internet traffic volumes have increased significantly with the advent of _____.
- n.* a mobile phone that functions as a computer and connects to the Internet

ANSWERS: 7. glaciers, 8. drown, 9. glaciologist's, 10. doe, 11. stunned, 12. frack, 13. insulated, 14. smartphones

15. The rain had formed a large _____ on the sidewalk.
- n.* a small pool of water, especially on a flat surface; a small and usually shallow accumulation of any liquid substance
16. We have to use a _____ to pour petrol into the tank.
- n.* a tube or pipe that is wide at the top, sloping sides, narrow at the bottom, used for pouring liquids or powders into a small opening; a smokestack on a ship or steam engine
17. Several roads have been closed due to the heavy _____.
- n.* a fall of snow; the amount of snow falling within a particular area in a specific time
18. The heat from the fire _____ the plastic parts of the appliance.
- v.* to change or distort the shape or appearance of something; to become misshapen or distorted
19. The old barn was _____ into a modern event space.
- v.* to use something again for a different purpose than it was originally intended
20. The room was only one _____ wider than the piano, making it a tight fit.
- n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
21. The _____ beneath the soil is extremely solid and stable.
- n.* the solid rock underlying soil or alluvium
22. China has developed one of the world's fastest _____ for its space program.
- n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing

ANSWERS: 15. puddle, 16. funnel, 17. snowfall, 18. deformed, 19. repurposed, 20. centimeter, 21. bedrock, 22. supercomputers

23. Some areas melt snow by harnessing heat from underground _____.

n. an underground layer of rock, sand, or Earth that can take in and hold water

24. He continued his investigation and soon _____ another crime.

v. to remove the cover from something; to discover something previously unseen or hidden

25. 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

ANSWERS: 23. aquifers, 24. uncovered, 25. timescale