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Anjali Tripathi: Why Earth may someday look like Mars | TED Talk

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

Advanced Words Only

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Session 1: Word List

faraway

adj. located at a geographically distant place; remote or separated by distance; distant or not easily accessible

synonym : distant, remote, far-off

(1) **faraway** land, (2) **faraway** dream

The view from the **faraway** hilltop was breathtakingly beautiful.

helium

n. a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

synonym : He, light gas, noble gas

(1) **helium** atom, (2) **helium** gas

The **helium-filled** balloons floated into the sky.

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym : spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

tenuous

adj. very weak or slight that it hardly exists

synonym : slight, fragile, slender

(1) **tenuous** relationship, (2) **tenuous** link

Evidence submitted by attorneys is **tenuous** due to a lack of objectivity.

veneer

n. a thin layer of material applied to the surface of something for decoration or protection; a superficial or deceptive outward appearance that conceals the true nature of something beneath it

synonym: overlay, laminate, facing

(1) **veneer** knowledge, (2) **veneer** stone

The wooden table had a thin **veneer** of cherry wood on top, giving it a beautiful and glossy finish.

flourish

v. to grow or develop vigorously or successfully

synonym: boom, advance, succeed

(1) **flourish** economically, (2) **flourish** worldwide

The Ottoman Empire **flourished** for over five centuries.

meteorite

n. a solid object originating in outer space that reaches the Earth's surface without completely vaporizing in the atmosphere; a rock that has fallen from space

synonym: meteor, shooting star, asteroid

(1) **meteorite** impact, (2) **meteorite** shower

The **meteorite** fragments were collected and sent to a laboratory for analysis.

frightening

adj. causing fear or alarm, or very surprising and alarming

synonym: scary, terrifying, alarming

(1) cast **frightening** eyes, (2) **frightening** experience

The news of the pandemic was a **frightening** reminder of the fragility of human health.

lantern

n. a portable source of lighting, typically featuring a protective enclosure for the light source

synonym: lamp, beacon, flashlight

(1) candle **lantern**, (2) a **lantern** in the dark

The paper-covered **lantern** glowed softly in the darkness.

propel

v. to move, drive or push something forward or in a particular direction, often with a lot of force

synonym: drive, push, move

(1) **propel** growth, (2) **propel** the ship

An increase in employment helps **propel** economic growth.

interplay

n. the way in which two or more things interact or influence each other

synonym: interaction, give-and-take, interconnection

(1) **interplay** among neurons, (2) complex **interplay**

The **interplay** of light and shadow creates a dramatic effect in the painting.

ultraviolet

adj. relating to or occupying the part of the spectrum beyond the violet end, especially radiation

synonym: black light, UV light, invisible light

(1) **ultraviolet** protection, (2) **ultraviolet** light

Ultraviolet radiation can cause skin damage if one is exposed for too long.

glimmer

n. a flash of light especially unsteady or reflected light; a slight sign of something

synonym: gleam, dazzle, gleam

(1) without a **glimmer** of truth, (2) give a **glimmer** of light

There is however a **glimmer** of hope.

aurora

n. a natural appearance of colored light in Earth's sky that is usually seen in high-latitude regions, especially around the Arctic and Antarctic

(1) **aurora** watching, (2) polar **aurora**

Northern and southern hemispheres alike experience the **aurora**.

wisp

n. a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely

perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure

synonym : strand, thread, filament

(1) a **wisp** of mist, (2) a **wisp** of conversation

The **wisp** of smoke from the candle added to the room's cozy ambiance.

conclusive

adj. serving to settle an issue or put an end to doubt or uncertainty; irrefutable and leaves no room for doubt

synonym : decisive, definitive, convincing

(1) **conclusive** information, (2) **conclusive** statement

The research provided **conclusive** evidence that the new treatment was effective.

alarming

adj. causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing

synonym : forbidding, concerning, disturbing

(1) **alarming** news, (2) **alarming** statistics

The sudden rise in crime rates in our neighborhood is quite **alarming**.

crater

n. a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite

synonym : cavity, hole, pit

(1) **crater** lake, (2) lunar **crater**

An enormous **crater** marks the area where the vast volcanic explosion occurred.

oxidant

n. a substance that causes oxidation, or the loss of electrons, in another substance; a reactive molecule or compound that can damage cells and tissues by causing oxidative stress

(1) **oxidant** stress, (2) natural **oxidant**

Breathing in large amounts of **oxidants**, like ozone, can harm

the respiratory system.

rusty

adj. covered with rust (= a reddish-brown coating or corrosion layer); deteriorated or corroded due to lack of use or exposure to the elements; affected by disuse or neglect

synonym : corroded, oxidized, weathered

(1) **rusty** metal, (2) **rusty** nail

The **rusty** gate creaked loudly as it opened.

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.

disappoint

v. to fail to meet someone or their hopes or expectations; to make someone feel sad

synonym : sadden, dismay, frustrate

(1) **disappoint** the audience, (2) don't **disappoint** me

She worked very hard not to **disappoint** her boss's expectations.

exoplanet

n. a planet that orbits a star outside of the solar system

(1) the closest **exoplanet** to Earth, (2) **exoplanet** mission

The **exoplanet** Kepler-186f is located 500 light-years from Earth and is believed to be habitable.

Jovian

adj. relating to Jupiter or its characteristics

synonym : Jupiter, giant planet

(1) **Jovian** satellites, (2) **Jovian** planet

The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

catastrophic

adj. extremely harmful; causing physical or financial destruction

synonym : fatal, disastrous, destructive

(1) victim of **catastrophic** injuries, (2) **catastrophic** climate change

The extinction rate of aquatic animals was **catastrophic**.

Session 2: Spelling

- | | |
|-----------------------------------|---|
| 1. fl____sh worldwide | <i>v.</i> to grow or develop vigorously or successfully |
| 2. con_____ve information | <i>adj.</i> serving to settle an issue or put an end to doubt or uncertainty; irrefutable and leaves no room for doubt |
| 3. me_____te shower | <i>n.</i> a solid object originating in outer space that reaches the Earth's surface without completely vaporizing in the atmosphere; a rock that has fallen from space |
| 4. cat_____hic climate change | <i>adj.</i> extremely harmful; causing physical or financial destruction |
| 5. fri_____ng experience | <i>adj.</i> causing fear or alarm, or very surprising and alarming |
| 6. the closest ex_____et to Earth | <i>n.</i> a planet that orbits a star outside of the solar system |
| 7. dis_____nt the audience | <i>v.</i> to fail to meet someone or their hopes or expectations; to make someone feel sad |
| 8. pr___l the ship | <i>v.</i> to move, drive or push something forward or in a particular direction, often with a lot of force |
| 9. a w__p of conversation | <i>n.</i> a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure |

ANSWERS: 1. flourish, 2. conclusive, 3. meteorite, 4. catastrophic, 5. frightening, 6. exoplanet, 7. disappoint, 8. propel, 9. wisp

10. al____ng statistics *adj.* causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
11. pr____l growth *v.* to move, drive or push something forward or in a particular direction, often with a lot of force
12. ox____t stress *n.* a substance that causes oxidation, or the loss of electrons, in another substance; a reactive molecule or compound that can damage cells and tissues by causing oxidative stress
13. give a gl____r of light *n.* a flash of light especially unsteady or reflected light; a slight sign of something
14. te____s relationship *adj.* very weak or slight that it hardly exists
15. victim of cat____hic injuries *adj.* extremely harmful; causing physical or financial destruction
16. lunar cr____r *n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
17. a la____n in the dark *n.* a portable source of lighting, typically featuring a protective enclosure for the light source
18. te____s link *adj.* very weak or slight that it hardly exists
19. al____ng news *adj.* causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
20. he____m atom *n.* a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

ANSWERS: 10. alarming, 11. propel, 12. oxidant, 13. glimmer, 14. tenuous, 15. catastrophic, 16. crater, 17. lantern, 18. tenuous, 19. alarming, 20. helium

21. con_____ve statement *adj.* serving to settle an issue or put an end to doubt or uncertainty; irrefutable and leaves no room for doubt
22. ex_____et mission *n.* a planet that orbits a star outside of the solar system
23. polar au____a *n.* a natural appearance of colored light in Earth's sky that is usually seen in high-latitude regions, especially around the Arctic and Antarctic
24. me_____te impact *n.* a solid object originating in outer space that reaches the Earth's surface without completely vaporizing in the atmosphere; a rock that has fallen from space
25. in_____ay among neurons *n.* the way in which two or more things interact or influence each other
26. as_____ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere
27. natural ox_____t *n.* a substance that causes oxidation, or the loss of electrons, in another substance; a reactive molecule or compound that can damage cells and tissues by causing oxidative stress
28. ve____r stone *n.* a thin layer of material applied to the surface of something for decoration or protection; a superficial or deceptive outward appearance that conceals the true nature of something beneath it
29. ult_____et protection *adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation

ANSWERS: 21. conclusive, 22. exoplanet, 23. aurora, 24. meteorite, 25. interplay, 26. astronaut, 27. oxidant, 28. veneer, 29. ultraviolet

30. ult_____et light *adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation
31. Jo___n planet *adj.* relating to Jupiter or its characteristics
32. ve___r knowledge *n.* a thin layer of material applied to the surface of something for decoration or protection; a superficial or deceptive outward appearance that conceals the true nature of something beneath it
33. ru__y nail *adj.* covered with rust (= a reddish-brown coating or corrosion layer); deteriorated or corroded due to lack of use or exposure to the elements; affected by disuse or neglect
34. Jo___n satellites *adj.* relating to Jupiter or its characteristics
35. he___m gas *n.* a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table
36. co_____e the scope of use *v.* to restrict the movement of someone or something
37. candle la_____n *n.* a portable source of lighting, typically featuring a protective enclosure for the light source
38. a w__p of mist *n.* a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure

ANSWERS: 30. ultraviolet, 31. Jovian, 32. veneer, 33. rusty, 34. Jovian, 35. helium, 36. confine, 37. lantern, 38. wisp

39. don't dis_____nt me *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
40. fa_____y land *adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible
41. au___a watching *n.* a natural appearance of colored light in Earth's sky that is usually seen in high-latitude regions, especially around the Arctic and Antarctic
42. as_____ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
43. fa_____y dream *adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible
44. ru__y metal *adj.* covered with rust (= a reddish-brown coating or corrosion layer); deteriorated or corroded due to lack of use or exposure to the elements; affected by disuse or neglect
45. fl_____sh economically *v.* to grow or develop vigorously or successfully
46. cast fri_____ng eyes *adj.* causing fear or alarm, or very surprising and alarming
47. complex in_____ay *n.* the way in which two or more things interact or influence each other
48. co_____e themselves solely *v.* to restrict the movement of someone or something
49. without a gl_____r of truth *n.* a flash of light especially unsteady or reflected light; a slight sign of something

ANSWERS: 39. disappoint, 40. faraway, 41. aurora, 42. astronaut, 43. faraway, 44. rusty, 45. flourish, 46. frightening, 47. interplay, 48. confine, 49. glimmer

50. cr___r lake

n. a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite

ANSWERS: 50. crater

Session 3: Fill in the Blanks

1. The news of the pandemic was a _____ reminder of the fragility of human health.
adj. causing fear or alarm, or very surprising and alarming
2. An increase in employment helps _____ economic growth.
v. to move, drive or push something forward or in a particular direction, often with a lot of force
3. There is however a _____ of hope.
n. a flash of light especially unsteady or reflected light; a slight sign of something
4. The _____ Kepler-186f is located 500 light-years from Earth and is believed to be habitable.
n. a planet that orbits a star outside of the solar system
5. The _____ moon Europa is believed to have an ocean beneath its icy surface.
adj. relating to Jupiter or its characteristics
6. The sudden rise in crime rates in our neighborhood is quite _____.
adj. causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
7. The wooden table had a thin _____ of cherry wood on top, giving it a beautiful and glossy finish.
n. a thin layer of material applied to the surface of something for decoration or protection; a superficial or deceptive outward appearance that conceals the true nature of something beneath it

ANSWERS: 1. frightening, 2. propel, 3. glimmer, 4. exoplanet, 5. Jovian, 6. alarming, 7. veneer

8. The _____ of light and shadow creates a dramatic effect in the painting.
n. the way in which two or more things interact or influence each other
9. Breathing in large amounts of _____ like ozone, can harm the respiratory system.
n. a substance that causes oxidation, or the loss of electrons, in another substance; a reactive molecule or compound that can damage cells and tissues by causing oxidative stress
10. The view from the _____ hilltop was breathtakingly beautiful.
adj. located at a geographically distant place; remote or separated by distance; distant or not easily accessible
11. The Ottoman Empire _____ for over five centuries.
v. to grow or develop vigorously or successfully
12. The _____ balloons floated into the sky.
n. a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table
13. Evidence submitted by attorneys is _____ due to a lack of objectivity.
adj. very weak or slight that it hardly exists
14. The research provided _____ evidence that the new treatment was effective.
adj. serving to settle an issue or put an end to doubt or uncertainty; irrefutable and leaves no room for doubt
15. The extinction rate of aquatic animals was _____.
adj. extremely harmful; causing physical or financial destruction

ANSWERS: 8. interplay, 9. oxidants, 10. faraway, 11. flourished, 12. helium-filled, 13. tenuous, 14. conclusive, 15. catastrophic

16. The _____ of smoke from the candle added to the room's cozy ambiance.
- n.* a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure
17. The animal was _____ in a small cage.
- v.* to restrict the movement of someone or something
18. The paper-covered _____ glowed softly in the darkness.
- n.* a portable source of lighting, typically featuring a protective enclosure for the light source
19. The _____ fragments were collected and sent to a laboratory for analysis.
- n.* a solid object originating in outer space that reaches the Earth's surface without completely vaporizing in the atmosphere; a rock that has fallen from space
20. She worked very hard not to _____ her boss's expectations.
- v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
21. _____ radiation can cause skin damage if one is exposed for too long.
- adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation
22. An enormous _____ marks the area where the vast volcanic explosion occurred.
- n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
23. The _____ gate creaked loudly as it opened.
- adj.* covered with rust (= a reddish-brown coating or corrosion layer); deteriorated or corroded due to lack of use or exposure to the elements; affected by disuse or neglect

ANSWERS: 16. wisp, 17. confined, 18. lantern, 19. meteorite, 20. disappoint, 21. Ultraviolet, 22. crater, 23. rusty

24. The shuttle _____ trained for months before embarking on the space mission.

n. a person trained by a space agency to travel outside the Earth's atmosphere

25. Northern and southern hemispheres alike experience the _____.

n. a natural appearance of colored light in Earth's sky that is usually seen in high-latitude regions, especially around the Arctic and Antarctic

ANSWERS: 24. astronaut, 25. aurora