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Vocabulary Builder Reference from...

Miho Janvier: Lessons from a solar storm chaser |

TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

apocalyptic

adj. describing severe damage and destruction in past or future events, or the end of the world

synonym: fateful, prophetic, ominous

(1) **apocalyptic** event, (2) have **apocalyptic** overtones

The **apocalyptic** landscape of burnt-out villages and bombed-out ruins spread out before them.

culprit

n. someone who is responsible for a crime or wrongdoing

synonym: criminal, felon, fugitive

(1) the **culprit** of global warming, (2) the arrest of the **culprit**

They finally found the **culprit** of the bug after a long time.

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.

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**.

perturb

v. to disturb or agitate someone or something, causing feelings of anxiety or unease; to throw something into a state of chaos or disorder

synonym : disturb, agitate, unsettle

(1) **perturb** emotions, (2) **perturb** the peace

The loud music from the party next door is starting to **perturb** me.

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.

magnetosphere

n. the region of space surrounding a planet or other celestial body in which its magnetic field dominates the interplanetary field; this region acts as a shield, protecting the body from the effects of solar wind and other energetic particles

synonym : magnetic field, magnetic shield

(1) **magnetosphere** boundary, (2) solar **magnetosphere**

The Earth's **magnetosphere** protects us from harmful solar radiation.

disrupt

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

synonym : interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep

I'm so sorry to **disrupt** you when you're pretty busy.

verge

n. the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border

synonym : brink, edge, margin

(1) **verge** of bankruptcy, (2) on the **verge** of tears

He stood on the **verge** of a major discovery.

erupt

v. (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

synonym : eject, emit, burst

(1) **erupt** in anger, (2) **erupt** into tears

Battles between whites and blacks **erupted** immediately.

scorch

v. to burn the surface of something, usually accidentally, with a hot iron or flame

synonym : char, burn, singe

(1) **scorch** your clothes, (2) careful not to **scorch**

The sun **scorched** the desert, making it uninhabitable.

Kelvin

n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

synonym : K, degree

(1) **Kelvin** scale, (2) **Kelvin** measurement

The scientist cooled the sample to just a couple of **Kelvin** to observe quantum effects.

Venus

n. the planet second in order from the sun

(1) **Venus** orbiter, (2) surface of **Venus**

They launched a rocket toward **Venus**.

comet

n. a celestial object consisting of a nucleus of ice and dust that goes around the sun

synonym : meteor, asteroid, meteoroid

(1) the surface of the **comet**, (2) **comet** Halley

The **comet's** bright tail could be seen in the night sky.

meteorology

n. the branch of science that deals with processes in the Earth's atmosphere that cause weather conditions

(1) agricultural **meteorology**, (2) marine **meteorology**

He conducted his research at the **meteorology** laboratory using large-scale computing.

Session 2: Spelling

1. solar mag_____ere
n. the region of space surrounding a planet or other celestial body in which its magnetic field dominates the interplanetary field; this region acts as a shield, protecting the body from the effects of solar wind and other energetic particles
2. marine met_____gy
n. the branch of science that deals with processes in the Earth's atmosphere that cause weather conditions
3. er__t in anger
v. (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently
4. apo_____ic event
adj. describing severe damage and destruction in past or future events, or the end of the world
5. sc___h your clothes
v. to burn the surface of something, usually accidentally, with a hot iron or flame
6. Ke___n measurement
n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
7. mag_____ere boundary
n. the region of space surrounding a planet or other celestial body in which its magnetic field dominates the interplanetary field; this region acts as a shield, protecting the body from the effects of solar wind and other energetic particles

ANSWERS: 1. magnetosphere, 2. meteorology, 3. erupt, 4. apocalyptic, 5. scorch, 6. Kelvin, 7. magnetosphere

8. the surface of the co__t *n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun
9. 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
10. 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
11. talented ph____st *n.* a scientist who specializes in the field of physics
12. Jo__n planet *adj.* relating to Jupiter or its characteristics
13. Ke__n scale *n.* a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin
14. agricultural met____gy *n.* the branch of science that deals with processes in the Earth's atmosphere that cause weather conditions
15. Jo__n satellites *adj.* relating to Jupiter or its characteristics
16. er__t into tears *v.* (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

ANSWERS: 8. comet, 9. rev, 10. rev, 11. physicist, 12. Jovian, 13. Kelvin, 14. meteorology, 15. Jovian, 16. erupt

17. the arrest of the cu____t *n.* someone who is responsible for a crime or wrongdoing
18. pe____b the peace *v.* to disturb or agitate someone or something, causing feelings of anxiety or unease; to throw something into a state of chaos or disorder
19. the cu____t of global warming *n.* someone who is responsible for a crime or wrongdoing
20. ve__e of bankruptcy *n.* the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border
21. have apo____ic overtones *adj.* describing severe damage and destruction in past or future events, or the end of the world
22. on the ve__e of tears *n.* the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border
23. di____t sleep *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
24. theoretical ph____st *n.* a scientist who specializes in the field of physics
25. surface of Ve__s *n.* the planet second in order from the sun
26. di____t a well-ordered condition *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

ANSWERS: 17. culprit, 18. perturb, 19. culprit, 20. verge, 21. apocalyptic, 22. verge, 23. disrupt, 24. physicist, 25. Venus, 26. disrupt

27. pe____b emotions *v.* to disturb or agitate someone or something, causing feelings of anxiety or unease; to throw something into a state of chaos or disorder
28. co__t Halley *n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun
29. careful not to sc____h *v.* to burn the surface of something, usually accidentally, with a hot iron or flame
30. Ve__s orbiter *n.* the planet second in order from the sun

ANSWERS: 27. perturb, 28. comet, 29. scorch, 30. Venus

Session 3: Fill in the Blanks

1. They launched a rocket toward _____.
n. the planet second in order from the sun

2. The _____ bright tail could be seen in the night sky.
n. a celestial object consisting of a nucleus of ice and dust that goes around the sun

3. The sun _____ the desert, making it uninhabitable.
v. to burn the surface of something, usually accidentally, with a hot iron or flame

4. 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

5. The _____ moon Europa is believed to have an ocean beneath its icy surface.
adj. relating to Jupiter or its characteristics

6. The scientist cooled the sample to just a couple of _____ to observe quantum effects.
n. a unit of measurement for temperature in the International System of Units (SI), which starts at absolute zero, the theoretical lowest limit of temperature, and named after the British physicist William Thomson, also known as Lord Kelvin

7. Battles between whites and blacks _____ immediately.
v. (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

ANSWERS: 1. Venus, 2. comet's, 3. scorched, 4. rev, 5. Jovian, 6. Kelvin, 7. erupted

8. The _____ landscape of burnt-out villages and bombed-out ruins spread out before them.

adj. describing severe damage and destruction in past or future events, or the end of the world

9. The Earth's _____ protects us from harmful solar radiation.

n. the region of space surrounding a planet or other celestial body in which its magnetic field dominates the interplanetary field; this region acts as a shield, protecting the body from the effects of solar wind and other energetic particles

10. He stood on the _____ of a major discovery.

n. the point at which something is about to happen or where something begins; the edge or margin of something, particularly a physical boundary or border

11. The loud music from the party next door is starting to _____ me.

v. to disturb or agitate someone or something, causing feelings of anxiety or unease; to throw something into a state of chaos or disorder

12. They finally found the _____ of the bug after a long time.

n. someone who is responsible for a crime or wrongdoing

13. He conducted his research at the _____ laboratory using large-scale computing.

n. the branch of science that deals with processes in the Earth's atmosphere that cause weather conditions

14. Einstein was an outstanding and famous _____ of the 20th century.

n. a scientist who specializes in the field of physics

15. I'm so sorry to _____ you when you're pretty busy.

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

ANSWERS: 8. apocalyptic, 9. magnetosphere, 10. verge, 11. perturb, 12. culprit, 13. meteorology, 14. physicist, 15. disrupt

ANSWERS: