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Vocabulary Builder Reference from...

Wilton L. Virgo: How does your smartphone know your location? | TED Talk https://www.ted.com/talks/wilton_l_virgo_how_does_y our_smartphone_know_your_location



Advanced Words Only

IMPORTANT

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Session 1: Word List

smartphone	<i>n.</i> 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 .
determinant	 <i>n</i>. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result <i>synonym</i>: cause, factor, element
	(1) environmental determinant , (2) a determinant of crop yields
	One determinant of success is having a positive attitude and a strong work ethic.
pendulum	 <i>n</i>. a weight hung from a fixed point used to regulate the movement of a clock or other mechanism <i>synonym</i>: oscillator, balance, clock
	(1) pendulum swings, (2) political pendulum
	The pendulum clock was a familiar sight in the old house.
constrain	 v. to restrict or limit someone or something's freedom or ability to do something

synonym: restrict, limit, confine

	(1) constrain his freedom, (2) constrain information flow The political situation constrained the country's economic growth and foreign relations.
freeway	 n. a major highway designed for high-speed traffic, with no stoplights or grade crossings and having interchanges or access roads to other highways synonym: highway, expressway, motorway
	(1) freeway exit, (2) expanded freeway
	We got stuck in a traffic jam on the freeway for over an hour.
instantaneous	 adj. occurring or happening immediately or without delay; taking place in an instant or moment synonym: immediate, prompt, rapid
	(1) instantaneous reaction, (2) instantaneous message
	The new software provides instantaneous results, making it much more efficient than the previous version.
Planck	 n. a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena
	(1) Planck mass, (2) Planck length
	Planck's constant is a fundamental constant of nature used in quantum mechanics.
cesium	 n. a chemical element with the symbol Cs and atomic number 55, a silver-white metal that is highly reactive with water and used in various applications, including in atomic clocks
	(1) cesium clock, (2) cesium radiation
	Astronomers use the properties of cesium atoms to define
	the standard unit of time.
rubidium	<i>n.</i> a chemical element belonging to the alkali metal group, with the atomic number 37 and symbol Rb, that is a soft,

	silvery-white metal that is highly reactive and is used in various scientific and industrial applications synonym: Rb
	(1) rubidium isotope, (2) rubidium atom
	Rubidium-87 is commonly used for radiometric dating of rocks and minerals.
resonate	 v. to be filled with a deep echoing sound synonym: echo, reverberate, resound
	(1) deeply resonate with the consumers, (2) resonate in the same frequency
	The sound resonates well in this theater.
oscillate	 v. to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive synonym: fluctuate, swing, vibrate
	(1) oscillate back and forth, (2) oscillate between joy and anger
	The fan in the room oscillates , making the airflow more evenly.
pinpoint	 v. to locate or identify the exact position in space or time of something
	synonym: name, direct, identify
	(1) pinpoint the problem, (2) pinpoint signs of manipulation
	This radar quickly pinpoints the position of the enemy.

Session 2: Spelling

1.	smane app developer	n.	a mobile phone that functions as a computer and connects to the Internet
2.	a detnt of crop yields	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
3.	cem radiation	n.	a chemical element with the symbol Cs and atomic number 55, a silver-white metal that is highly reactive with water and used in various applications, including in atomic clocks
4.	expanded fry	n.	a major highway designed for high-speed traffic, with no stoplights or grade crossings and having interchanges or access roads to other highways
5.	fry exit	n.	a major highway designed for high-speed traffic, with no stoplights or grade crossings and having interchanges or access roads to other highways
6.	rete in the same frequency	<i>v</i> .	to be filled with a deep echoing sound
7.	coin information flow	v.	to restrict or limit someone or something's freedom or ability to do something
8.	PIk mass	n.	a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena

ANSWERS: 1. smartphone, 2. determinant, 3. cesium, 4. freeway, 5. freeway, 6. resonate, 7. constrain, 8. Planck

9.	ruum isotope	n.	a chemical element belonging to the alkali metal group, with the atomic number 37 and symbol Rb, that is a soft, silvery-white metal that is highly reactive and is used in various scientific and industrial applications
10.	PIk length	n.	a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena
11.	deeply rete with the consumers	<i>v</i> .	to be filled with a deep echoing sound
12.	insous reaction	adj.	occurring or happening immediately or without delay; taking place in an instant or moment
13.	peum swings	n.	a weight hung from a fixed point used to regulate the movement of a clock or other mechanism
14.	pint signs of manipulation	v.	to locate or identify the exact position in space or time of something
15.	oste between joy and anger	v.	to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive
16.	pint the problem	v.	to locate or identify the exact position in space or time of something
17.	insous message	adj.	occurring or happening immediately or without delay; taking place in an instant or moment

ANSWERS: 9. rubidium, 10. Planck, 11. resonate, 12. instantaneous, 13. pendulum, 14. pinpoint, 15. oscillate, 16. pinpoint, 17. instantaneous

18. oste back and forth	v.	to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive
19. environmental detnt	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
20. cem clock	n.	a chemical element with the symbol Cs and atomic number 55, a silver-white metal that is highly reactive with water and used in various applications, including in atomic clocks
21. political peum	n.	a weight hung from a fixed point used to regulate the movement of a clock or other mechanism
22. coin his freedom	v.	to restrict or limit someone or something's freedom or ability to do something
23. ruum atom	n.	a chemical element belonging to the alkali metal group, with the atomic number 37 and symbol Rb, that is a soft, silvery-white metal that is highly reactive and is used in various scientific and industrial applications
24. smane addict	n.	a mobile phone that functions as a computer and connects to the Internet

ANSWERS: 18. oscillate, 19. determinant, 20. cesium, 21. pendulum, 22. constrain, 23. rubidium, 24. smartphone

Session 3: Fill in the Blanks

- 1. The _____ clock was a familiar sight in the old house.
- *n.* a weight hung from a fixed point used to regulate the movement of a clock or other mechanism
- 2. _____ constant is a fundamental constant of nature used in quantum mechanics.
- *n.* a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena
- 3. The political situation ______ the country's economic growth and foreign relations.
- *v.* to restrict or limit someone or something's freedom or ability to do something
- 4. We got stuck in a traffic jam on the _____ for over an hour.
- *n.* a major highway designed for high-speed traffic, with no stoplights or grade crossings and having interchanges or access roads to other highways
- 5. Astronomers use the properties of _____ atoms to define the standard unit of time.
 - *n.* a chemical element with the symbol Cs and atomic number 55, a silver-white metal that is highly reactive with water and used in various applications, including in atomic clocks
- 6. One ______ of success is having a positive attitude and a strong work ethic.
- *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

ANSWERS: 1. pendulum, 2. Planck's, 3. constrained, 4. freeway, 5. cesium, 6. determinant

- 7. The sound ______ well in this theater.
- v. to be filled with a deep echoing sound
- 8. This radar quickly ______ the position of the enemy.
- v. to locate or identify the exact position in space or time of something
- 9. The fan in the room _____ making the airflow more evenly.
- v. to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive
- 10. Internet traffic volumes have increased significantly with the advent of
- *n.* a mobile phone that functions as a computer and connects to the Internet
- 11. The new software provides ______ results, making it much more efficient than the previous version.
- *adj.* occurring or happening immediately or without delay; taking place in an instant or moment
- 12. ______ is commonly used for radiometric dating of rocks and minerals.
- a chemical element belonging to the alkali metal group, with the atomic number
 37 and symbol Rb, that is a soft, silvery-white metal that is highly reactive and
 is used in various scientific and industrial applications

ANSWERS: 7. resonates, 8. pinpoints, 9. oscillates, 10. smartphones, 11. instantaneous, 12. Rubidium-87