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

synonym: restrict, limit, confine

	(1) <b>constrain</b> his freedom, (2) <b>constrain</b> information flow The political situation <b>constrained</b> the country's economic growth and foreign relations.
freeway	<ul> <li>n. a major highway designed for high-speed traffic, with no stoplights or grade crossings and having interchanges or access roads to other highways</li> <li>synonym: highway, expressway, motorway</li> </ul>
	(1) freeway exit, (2) expanded freeway
	We got stuck in a traffic jam on the <b>freeway</b> for over an hour.
instantaneous	<ul> <li>adj. occurring or happening immediately or without delay;</li> <li>taking place in an instant or moment</li> <li>synonym: immediate, prompt, rapid</li> </ul>
	(1) instantaneous reaction, (2) instantaneous message
	The new software provides <b>instantaneous</b> results, making it much more efficient than the previous version.
Planck	<ul> <li>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</li> </ul>
	(1) Planck mass, (2) Planck length
	<b>Planck's</b> constant is a fundamental constant of nature used in quantum mechanics.
cesium	<ul> <li>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</li> </ul>
	(1) <b>cesium</b> clock, (2) <b>cesium</b> 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
	<b>Rubidium-87</b> is commonly used for radiometric dating of rocks and minerals.
resonate	<ul> <li>v. to be filled with a deep echoing sound</li> <li>synonym: echo, reverberate, resound</li> </ul>
	(1) deeply <b>resonate</b> with the consumers, (2) <b>resonate</b> in the same frequency
	The sound <b>resonates</b> well in this theater.
oscillate	<ul> <li>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</li> <li>synonym: fluctuate, swing, vibrate</li> </ul>
	(1) <b>oscillate</b> back and forth, (2) <b>oscillate</b> between joy and anger
	The fan in the room <b>oscillates</b> , making the airflow more evenly.
pinpoint	<ul> <li>v. to locate or identify the exact position in space or time of something</li> </ul>
	synonym: name, direct, identify
	(1) <b>pinpoint</b> the problem, (2) <b>pinpoint</b> signs of manipulation
	This radar quickly <b>pinpoints</b> 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