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Vocabulary Builder Reference from...

Carlo Ratti: Architecture that senses and responds |

TED Talk

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t_senses_and_responds](https://www.ted.com/talks/carlo_ratti_architecture_that_senses_and_responds)

Advanced Words Only

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Session 1: Word List

actuate

v. to cause a machine or equipment to start to work
synonym: motivate, spark, drive

(1) **actuate** the circuits, (2) **actuate** a parking brake

A desire for success **actuated** her.

sculpt

v. to create a work of art by carving, casting, or other shaping techniques

synonym: carve, mold, shape

(1) **sculpt** an image, (2) **sculpt** prototype

He spent hours every day **sculpting** figures out of clay.

colosseum

n. (also "coliseum") a large amphitheater (= an open-air venue used for entertainment, performances, and sports) in Rome whose construction was begun by Vespasian about AD 75 or 80

(1) build a **colosseum** for gladiators, (2) **Colosseum** area

Rome's **Colosseum** gets busy in peak season.

inefficiency

n. the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive

synonym: ineffectiveness, inefficacy, inadequacy

(1) **inefficiency** in the system, (2) bureaucratic **inefficiency**

The company's **inefficiency** in handling customer requests led to many complaints.

convoluted

adj. extraordinarily complicated and hard to understand

synonym: intricate, complex, bending

(1) **convoluted** plot, (2) **convoluted** legal language

James Joyce's books are full of long, **convoluted** sentences.

solenoid

n. a coil of wire wound around a cylindrical core, typically made of ferromagnetic material, that creates a magnetic field when an electric current is passed through it, commonly used in various electrical devices, such as valves, relays, and electric locks

synonym: coil, electromagnet, inductor

(1) linear **solenoid**, (2) electromagnetic **solenoid**

The **solenoid** valve controls the flow of water in the irrigation system.

exposition

n. a comprehensive description and explanation of an idea or theory; a collection of things, such as goods or works of art, etc., for public display

synonym: explanation, description, account

(1) an international **exposition**, (2) rational **exposition**

The **exposition** in the novel provides background information on the characters and setting.

pavilion

n. a large, often ornate tent or booth, often used for entertainment or public events; a building or structure, often in a park or other public space, used for meetings, exhibitions, or social gatherings

synonym: gazebo, kiosk, pagoda

(1) garden **pavilion**, (2) beach **pavilion**

The outdoor wedding reception was held in a beautiful **pavilion** overlooking the lake.

demolish

v. to completely destroy or tear down a building, structure, or other entity; to ruin or eliminate the effectiveness or

power of something

synonym : destroy, wreck, level

(1) **demolish** a myth, (2) **demolish** a bridge

The city decided to **demolish** the old, unsafe building and build a new one.

puzzled

adj. confused or uncertain because you do not understand something

synonym : confused, perplexed, bewildered

(1) **puzzled** expression, (2) **puzzled** by the question

She was **puzzled** by the strange behavior of her cat.

synchronize

v. to happen or cause to happen at the same time or rate

synonym : coordinate, accompany, harmonize

(1) **synchronize** movements, (2) **synchronize** our watches

The ball speed will increase when the lower body movements are perfectly **synchronized**.

reconstruct

v. to build or form something again that has been damaged or destroyed

synonym : rebuild, revamp, reorganize

(1) **reconstruct** an image, (2) **reconstruct** the original text

They've decided to **reconstruct** a ruined castle.

olympiad

n. a period of four years, originally the time between the ancient Olympic Games and now commonly used to refer to the modern Olympic Games, which are held every four years

(1) the modern **olympiad**, (2) summer **olympiad**

She won a gold medal in the physics **olympiad** and was praised by her teachers and peers.

impart

v. to expose or inform; to provide a portion of

synonym : pass on, give, bestow

(1) **impart** a secret, (2) **impart** basic knowledge

She had knowledge she couldn't wait to **impart**.

beacon

n. a light or other visible object serving as a signal, guide, or warning

synonym: lighthouse, guidepost, marker

(1) an aerial **beacon**, (2) **beacon** of hope

The lighthouse served as a **beacon** to guide ships safely into port.

Session 2: Spelling

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|-------------------------------------|--|
| 1. bureaucratic ine_____ncy | <i>n.</i> the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive |
| 2. sc___t prototype | <i>v.</i> to create a work of art by carving, casting, or other shaping techniques |
| 3. syn_____ze movements | <i>v.</i> to happen or cause to happen at the same time or rate |
| 4. pu_____d by the question | <i>adj.</i> confused or uncertain because you do not understand something |
| 5. build a co_____um for gladiators | <i>n.</i> (also "coliseum") a large amphitheater (= an open-air venue used for entertainment, performances, and sports) in Rome whose construction was begun by Vespasian about AD 75 or 80 |
| 6. garden pa_____on | <i>n.</i> a large, often ornate tent or booth, often used for entertainment or public events; a building or structure, often in a park or other public space, used for meetings, exhibitions, or social gatherings |
| 7. pu_____d expression | <i>adj.</i> confused or uncertain because you do not understand something |
| 8. con_____ed plot | <i>adj.</i> extraordinarily complicated and hard to understand |
| 9. an aerial be___n | <i>n.</i> a light or other visible object serving as a signal, guide, or warning |

ANSWERS: 1. inefficiency, 2. sculpt, 3. synchronize, 4. puzzled, 5. colosseum, 6. pavilion, 7. puzzled, 8. convoluted, 9. beacon

10. ac____e a parking brake *v.* to cause a machine or equipment to start to work
11. an international exp_____on *n.* a comprehensive description and explanation of an idea or theory; a collection of things, such as goods or works of art, etc., for public display
12. beach pa_____on *n.* a large, often ornate tent or booth, often used for entertainment or public events; a building or structure, often in a park or other public space, used for meetings, exhibitions, or social gatherings
13. linear so_____id *n.* a coil of wire wound around a cylindrical core, typically made of ferromagnetic material, that creates a magnetic field when an electric current is passed through it, commonly used in various electrical devices, such as valves, relays, and electric locks
14. the modern ol_____ad *n.* a period of four years, originally the time between the ancient Olympic Games and now commonly used to refer to the modern Olympic Games, which are held every four years
15. syn_____ze our watches *v.* to happen or cause to happen at the same time or rate
16. de_____sh a bridge *v.* to completely destroy or tear down a building, structure, or other entity; to ruin or eliminate the effectiveness or power of something
17. summer ol_____ad *n.* a period of four years, originally the time between the ancient Olympic Games and now commonly used to refer to the modern Olympic Games, which are held every four years

ANSWERS: 10. actuate, 11. exposition, 12. pavilion, 13. solenoid, 14. olympiad, 15. synchronize, 16. demolish, 17. olympiad

18. electromagnetic so____id *n.* a coil of wire wound around a cylindrical core, typically made of ferromagnetic material, that creates a magnetic field when an electric current is passed through it, commonly used in various electrical devices, such as valves, relays, and electric locks
19. de____sh a myth *v.* to completely destroy or tear down a building, structure, or other entity; to ruin or eliminate the effectiveness or power of something
20. con____ed legal language *adj.* extraordinarily complicated and hard to understand
21. ac____e the circuits *v.* to cause a machine or equipment to start to work
22. rec____ct an image *v.* to build or form something again that has been damaged or destroyed
23. sc____t an image *v.* to create a work of art by carving, casting, or other shaping techniques
24. im____t basic knowledge *v.* to expose or inform; to provide a portion of
25. rational exp____on *n.* a comprehensive description and explanation of an idea or theory; a collection of things, such as goods or works of art, etc., for public display
26. Co____um area *n.* (also "coliseum") a large amphitheater (= an open-air venue used for entertainment, performances, and sports) in Rome whose construction was begun by Vespasian about AD 75 or 80

ANSWERS: 18. solenoid, 19. demolish, 20. convoluted, 21. actuate, 22. reconstruct, 23. sculpt, 24. impart, 25. exposition, 26. colosseum

Session 3: Fill in the Blanks

1. The lighthouse served as a _____ to guide ships safely into port.
n. a light or other visible object serving as a signal, guide, or warning
2. A desire for success _____ her.
v. to cause a machine or equipment to start to work
3. He spent hours every day _____ figures out of clay.
v. to create a work of art by carving, casting, or other shaping techniques
4. The city decided to _____ the old, unsafe building and build a new one.
v. to completely destroy or tear down a building, structure, or other entity; to ruin or eliminate the effectiveness or power of something
5. She won a gold medal in the physics _____ and was praised by her teachers and peers.
n. a period of four years, originally the time between the ancient Olympic Games and now commonly used to refer to the modern Olympic Games, which are held every four years
6. The outdoor wedding reception was held in a beautiful _____ overlooking the lake.
n. a large, often ornate tent or booth, often used for entertainment or public events; a building or structure, often in a park or other public space, used for meetings, exhibitions, or social gatherings
7. James Joyce's books are full of long, _____ sentences.
adj. extraordinarily complicated and hard to understand

ANSWERS: 1. beacon, 2. actuated, 3. sculpting, 4. demolish, 5. olympiad, 6. pavilion, 7. convoluted

8. The ball speed will increase when the lower body movements are perfectly _____.
- v.* to happen or cause to happen at the same time or rate
9. Rome's _____ gets busy in peak season.
- n.* (also "coliseum") a large amphitheater (= an open-air venue used for entertainment, performances, and sports) in Rome whose construction was begun by Vespasian about AD 75 or 80
10. She was _____ by the strange behavior of her cat.
- adj.* confused or uncertain because you do not understand something
11. They've decided to _____ a ruined castle.
- v.* to build or form something again that has been damaged or destroyed
12. The company's _____ in handling customer requests led to many complaints.
- n.* the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive
13. She had knowledge she couldn't wait to _____.
- v.* to expose or inform; to provide a portion of
14. The _____ in the novel provides background information on the characters and setting.
- n.* a comprehensive description and explanation of an idea or theory; a collection of things, such as goods or works of art, etc., for public display
15. The _____ valve controls the flow of water in the irrigation system.
- n.* a coil of wire wound around a cylindrical core, typically made of ferromagnetic material, that creates a magnetic field when an electric current is passed through it, commonly used in various electrical devices, such as valves, relays, and electric locks

ANSWERS: 8. synchronized, 9. Colosseum, 10. puzzled, 11. reconstruct, 12. inefficiency, 13. impart, 14. exposition, 15. solenoid

ANSWERS: