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Skylar Tibbits: The emergence of "4D printing" | TED Talk

https://www.ted.com/talks/skylar_tibbits_the_emergence_of_4d_printing

Advanced Words Only

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Session 1: Word List

brute

n. a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power

synonym : beast, savage, animal

(1) **brute** beasts, (2) **brute** force

The **brute** behavior of the football players caused the game to be canceled.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

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.

bury

v. to place a dead body in the ground, grave, or tomb
synonym: entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

pneumatic

adj. relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas

synonym: air-powered, gas-pressure, compressed-air

(1) **pneumatic** tire, (2) **pneumatic** cylinder

The mechanic used a **pneumatic** drill to repair the engine.

embed

v. to fix or set firmly in a surrounding mass

synonym: entrench, fix, set

(1) **embed** scripts in the message, (2) **embed** a sensor

The company **embedded** a tracking code in the product's packaging to monitor its shipment.

intricacy

n. the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements

synonym: complexity, intricateness, elaboration

(1) the **intricacy** of the design, (2) legal **intricacy**

The clockwork mechanism of the antique watch showed incredible **intricacy**.

Arthurian

adj. relating to king Arthur and the tales and legends associated with him

(1) the **Arthurian** cycle, (2) **Arthurian** romances

The **Arthurian** legends of King Arthur and the knights of the Round Table are popular literary motifs.

beak

n. the hard and pointed or curved mouse of a bird

synonym: nib, pecker, snoot

(1) sharp **beak**, (2) a tip of the **beak**

The bird's **beak** evolves according to the type of prey it can take on the area.

polio

n. an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

synonym : poliomyelitis, infantile paralysis

(1) **polio** epidemic, (2) **polio** eradication

The **polio** vaccine development is regarded as one of the greatest medical achievements of the 20th century.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym : perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

macroscopic

adj. visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools

synonym : large, visible, apparent

(1) **macroscopic** observation, (2) **macroscopic** anatomy

The **macroscopic** view of the galaxy is simply breathtaking.

unveil

v. to reveal or make something publicly known, especially for the first time

synonym : reveal, uncover, expose

(1) **unveil** a monument, (2) **unveil** a comprehensive plan

The company plans to **unveil** its new product at the trade show next week.

cyborg

n. a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices

synonym : android, bionic, half-human

(1) **cyborg** technology, (2) **cyborg** cop

The idea of a superhuman **cyborg** army is a popular trope in action movies.

dedicate

v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

synonym: consecrate, devote, commit

(1) **dedicate** a few hours, (2) **dedicate** a chapter to the subject

He **dedicated** his life to helping others.

reconfigure

v. to change the configuration or arrangement of something, often to improve its performance or functionality

synonym: reshape, restructure, realign

(1) **reconfigure** the network, (2) **reconfigure** the operating system

We need to **reconfigure** the office layout to use the space better.

undulate

v. to move with a smooth wavelike motion; to have a wavy form or outline

synonym: roll, ripple, wave

(1) **undulate** waves, (2) **undulate** in the wind

The snake **undulated** its way through the underbrush, silently stalking its prey.

peristaltic

adj. relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract

synonym: contractile, rhythmic, pulsating

(1) **peristaltic** contractions, (2) **peristaltic** pump

The intestines' **peristaltic** movement helps propel food through the digestive system.

industrious

adj. hardworking, diligent, and persistent in effort

synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work

late into the night.

reinvent

v. to change something so drastically that it looks to be completely new

synonym: recreate, remake, revive

(1) **reinvent** local dishes, (2) **reinvent** our life

They have tried to **reinvent** their grocery stores.

reimagine

v. to imagine or conceive of something in a new or different way

synonym: re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities

The company is trying to **reimagine** its business model to stay competitive.

Session 2: Spelling

- | | |
|--------------------------|--|
| 1. un_____te in the wind | <i>v.</i> to move with a smooth wavelike motion; to have a wavy form or outline |
| 2. begin to r_t | <i>v.</i> to decay, or cause something to decay, naturally and gradually |
| 3. un_____te waves | <i>v.</i> to move with a smooth wavelike motion; to have a wavy form or outline |
| 4. legal in_____cy | <i>n.</i> the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements |
| 5. br__e force | <i>n.</i> a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power |
| 6. sharp b__k | <i>n.</i> the hard and pointed or curved mouse of a bird |
| 7. per_____ic pump | <i>adj.</i> relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract |
| 8. the Ar_____an cycle | <i>adj.</i> relating to king Arthur and the tales and legends associated with him |
| 9. em__d a sensor | <i>v.</i> to fix or set firmly in a surrounding mass |
| 10. ind_____us student | <i>adj.</i> hardworking, diligent, and persistent in effort |

ANSWERS: 1. undulate, 2. rot, 3. undulate, 4. intricacy, 5. brute, 6. beak, 7. peristaltic, 8. Arthurian, 9. embed, 10. industrious

11. mac_____ic observation *adj.* visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
12. per_____ic contractions *adj.* relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract
13. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
14. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
15. rec_____re the network *v.* to change the configuration or arrangement of something, often to improve its performance or functionality
16. rec_____re the operating system *v.* to change the configuration or arrangement of something, often to improve its performance or functionality
17. po__o eradication *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
18. re_____ne the future *v.* to imagine or conceive of something in a new or different way
19. re_____nt our life *v.* to change something so drastically that it looks to be completely new

ANSWERS: 11. macroscopic, 12. peristaltic, 13. industrious, 14. bury, 15. reconfigure, 16. reconfigure, 17. polio, 18. reimagine, 19. reinvent

20. em__d scripts in the message *v.* to fix or set firmly in a surrounding mass
21. Ar_____an romances *adj.* relating to king Arthur and the tales and legends associated with him
22. po__o epidemic *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
23. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
24. cy___g cop *n.* a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices
25. pn_____ic cylinder *adj.* relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
26. ine_____ncy in the system *n.* the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive
27. re_____ne the possibilities *v.* to imagine or conceive of something in a new or different way
28. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
29. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

ANSWERS: 20. embed, 21. Arthurian, 22. polio, 23. nanoscale, 24. cyborg, 25. pneumatic, 26. inefficiency, 27. reimagine, 28. bury, 29. nanoscale

30. un___l a monument *v.* to reveal or make something publicly known, especially for the first time
31. the in_____cy of the design *n.* the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
32. bureaucratic ine_____ncy *n.* the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive
33. re_____nt local dishes *v.* to change something so drastically that it looks to be completely new
34. de_____te a chapter to the subject *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
35. pn_____ic tire *adj.* relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
36. br__e beasts *n.* a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power
37. a tip of the b__k *n.* the hard and pointed or curved mouse of a bird
38. cy___g technology *n.* a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices

ANSWERS: 30. unveil, 31. intricacy, 32. inefficiency, 33. reinvent, 34. dedicate, 35. pneumatic, 36. brute, 37. beak, 38. cyborg

39. mac_____ic anatomy *adj.* visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
40. r_t with age *v.* to decay, or cause something to decay, naturally and gradually
41. de_____te a few hours *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
42. un___l a comprehensive plan *v.* to reveal or make something publicly known, especially for the first time

ANSWERS: 39. macroscopic, 40. rot, 41. dedicate, 42. unveil

Session 3: Fill in the Blanks

1. The company _____ a tracking code in the product's packaging to monitor its shipment.
v. to fix or set firmly in a surrounding mass

2. The _____ legends of King Arthur and the knights of the Round Table are popular literary motifs.
adj. relating to king Arthur and the tales and legends associated with him

3. The company plans to _____ its new product at the trade show next week.
v. to reveal or make something publicly known, especially for the first time

4. 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

5. They have tried to _____ their grocery stores.
v. to change something so drastically that it looks to be completely new

6. The snake _____ its way through the underbrush, silently stalking its prey.
v. to move with a smooth wavelike motion; to have a wavy form or outline

7. The _____ behavior of the football players caused the game to be canceled.
n. a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power

8. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort

ANSWERS: 1. embedded, 2. Arthurian, 3. unveil, 4. inefficiency, 5. reinvent, 6. undulated, 7. brute, 8. industrious

9. The _____ vaccine development is regarded as one of the greatest medical achievements of the 20th century.
- n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
10. The company is trying to _____ its business model to stay competitive.
- v.* to imagine or conceive of something in a new or different way
11. We need to _____ the office layout to use the space better.
- v.* to change the configuration or arrangement of something, often to improve its performance or functionality
12. He _____ his life to helping others.
- v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
13. The mechanic used a _____ drill to repair the engine.
- adj.* relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
14. The clockwork mechanism of the antique watch showed incredible _____.
- n.* the quality of being complex, detailed, or highly involved; the existence of many interrelated parts or elements
15. The bird's _____ evolves according to the type of prey it can take on the area.
- n.* the hard and pointed or curved mouse of a bird
16. There is plenty of space to _____ everyone.
- v.* to place a dead body in the ground, grave, or tomb

ANSWERS: 9. polio, 10. reimagine, 11. reconfigure, 12. dedicated, 13. pneumatic, 14. intricacy, 15. beak, 16. bury

17. The idea of a superhuman _____ army is a popular trope in action movies.
n. a being that is part human and part machine or technology, often created through the integration of electronic and mechanical devices
18. The intestines' _____ movement helps propel food through the digestive system.
adj. relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract
19. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
20. The _____ view of the galaxy is simply breathtaking.
adj. visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
21. Please refrigerate the meat, or it will _____.
v. to decay, or cause something to decay, naturally and gradually

ANSWERS: 17. cyborg, 18. peristaltic, 19. nanoscale, 20. macroscopic, 21. rot