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Vocabulary Builder Reference from...

Aatish Bhatia: The physics of human sperm vs. the physics of the sperm whale | TED Talk https://www.ted.com/talks/aatish_bhatia_the_physics_of_human_sperm_vs_the_physics_of_the_sperm_w hale



Advanced Words Only

IMPORTANT

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Session 1: Word List

physicist

- 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.

microbe

- n. a tiny living thing that can only be seen with a microscope and that may cause diseasesynonym: germ, microorganism, bacterium
- (1) pathogenic **microbe**, (2) **microbes** sterilizer **Microbes** thrive on the surface of the human skin.

microscopic

- adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy
- synonym: infinitesimal, tiny, atomic
- (1) **microscopic** inquiry, (2) **microscopic** analysis Inspectors noticed **microscopic** cracks in the submarine's hull.

inhabit

- v. to live in a specific location; to reside
- synonym: settle, occupy, populate
- (1) inhabit a cave, (2) inhabit the stomach

I have no idea what sort of folks inhabit the neighborhood.

outnumber

v. to be more numerous or greater in number than another group or entity; to exceed in quantity or number

synonym: surpass, exceed

(1) **outnumber** our opponents, (2) **outnumber** males The number of tourists in the city now **outnumbers** the locals.

swish

v. to move or cause to move with a hissing or rustling sound

synonym: rustle, hiss, flick

(1) swish a whip, (2) swish her hair

He **swished** his sword back and forth, trying to intimidate his opponent.

teeny

adj. extremely small; tiny

synonym: tiny, mini, minuscule

(1) **teeny** bit, (2) so **teeny** tiny

The ring was so **teeny** that it almost looked like a toy.

viscosity

 the state or quality of being thick, sticky, and semi-fluid in consistency; resistance to flow

synonym: thickness, consistency, texture

(1) high **viscosity**, (2) dynamic **viscosity**

The viscosity of the oil made it difficult to pour.

molasses

 a thick, dark syrup made from boiled sugar cane or sugar beet juice, often used as a sweetener in cooking and baking

synonym: treacle, syrup, honey

(1) molasses cookies, (2) thick molasses

The recipe calls for a tablespoon of **molasses** to add sweetness.

deform

v. to change or distort the shape or appearance of something; to become misshapen or distorted

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synonym: distort, contort, mangle

(1) **deform** the shape, (2) **deform** his way of life The heat from the fire **deformed** the plastic parts of the appliance.

paddle

 a flat, usually wooden implement with a handle used for stirring, mixing, or beating a liquid or substance

synonym: oar, oarlock, scull

(1) paddle strokes, (2) canoe paddle

The **paddle** boarders glided across the crystal-clear waters of the cove.

paramecium

 a single-celled freshwater organism characterized by a slipper-like shape and the presence of cilia, used for movement and food gathering

synonym: slipper animalcule, ciliate

(1) **paramecium** species, (2) **paramecium** reproduction The **paramecium** colony flourished in the petri dish, providing a perfect sample for our experiment.

ingenious

adj. showing inventiveness and ability or skill *synonym*: creative, innovative, inventive

(1) **ingenious** device, (2) **ingenious** idea I always look forward to reading his stories since they're so **ingenious**.

wag

v. to move or swing back and forth or up and down in a lively or playful manner; to shake or quiver

synonym: waggle, swish, wave

(1) **wag** their laughter, (2) **wag** a forefinger

The cow lazily continued to **wag** its tail while grazing in the field.

cork

n. a type of light and buoyant material that comes from the bark of the cork oak tree often used as a stopper for bottles or as a material for insulation or flooring; (verb) to close or seal something with a cork or similar stopper

synonym: stopper, bung, plug

(1) cork a bottle, (2) cork flooring

She used a **cork** board to display her favorite photographs.

helix

a three-dimensional spiral shape or structure,
 particularly like that of a spring or a DNA molecule

synonym: coil, spiral, twist

(1) helix structure, (2) alpha helix

The DNA molecule is shaped like a double **helix**.

grapple

v. to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

synonym: brawl, scuffle, wrestle

(1) **grapple** with problem, (2) **grapple** with each other He needed to **grapple** with structural reforms to improve the company's revenue.

sling

 to throw or drop something somewhere carelessly; to hang loosely or freely; (noun) a length of rope, fabric, or chain used to support or lift something

synonym: throw, hang, (noun) harness

(1) sling an arrow, (2) sling shot

The children were playing by **slinging** stones at the monument.

fling

v. to throw or push something or someone with force or recklessness, especially because you are angry

synonym: throw, dump, hurl

(1) **fling** a stream of abuse, (2) **fling** a door open forcefully He was provoked to **fling** the draft on the floor.

pylorus

- the valve at the exit of the stomach that regulates food in the small intestine
- pylorus sphincter, (2) pylorus stenosis
 The doctor ordered an endoscopy to examine the patient's pylorus for possible ulcers.

slimy

adj. covered with or having a slippery, viscous coating;
 repulsively slippery or oozy; containing or resembling slime

synonym: slippery, mucky, mucous

(1) **slimy** substance, (2) **slimy** green algae

The **slimy** texture of the seafood dish made me feel queasy.

acidic

adj. having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal

synonym: sour, tart, acrid

(1) acidic solution, (2) acidic taste

The soil in this region is too **acidic** for most crops to grow well.

mucus

 a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.

synonym: secretion, slime, saliva

(1) airway mucus, (2) nasal mucus

When the body temperature drops, mucus secretion fails.

glide

v. to move smoothly and effortlessly

synonym: slide, skim, coast

(1) **glide** through the water, (2) **glide** down the mountain The eagle gracefully **glided** on the thermals, soaring above the mountains.

slime

- n. a thick, slippery substance that is usually soft and wetsynonym: muck, ooze, gunk
- (1) slime bacteria, (2) slime mold

The kids loved playing with the green **slime**, but it was a nightmare to clean up.

ulcer

n. a sore or erosion in the skin or mucous membrane, often caused by infection or inflammation; a persistent, painful cavity in the stomach or intestinal wall that can lead to digestive problems

synonym: lesion, sore, wound

(1) mouth ulcer, (2) gastric ulcer

The stress of the job caused him to develop an **ulcer** in his stomach.

Session 2: Spelling

1. sl__g shot

2. ac c solution

3. mi___es sterilizer

4. high vi____ty

5. fl_g a stream of abuse

6. thick mo es

7. te y bit

8. mo es cookies

9. nasal mu_s

v. to throw or drop something somewhere carelessly; to hang loosely or freely; (noun) a length of rope, fabric, or chain used to support or lift something

adj. having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal

 a tiny living thing that can only be seen with a microscope and that may cause disease

 n. the state or quality of being thick, sticky, and semi-fluid in consistency; resistance to flow

 to throw or push something or someone with force or recklessness, especially because you are angry

 a thick, dark syrup made from boiled sugar cane or sugar beet juice, often used as a sweetener in cooking and baking

adj. extremely small; tiny

 a thick, dark syrup made from boiled sugar cane or sugar beet juice, often used as a sweetener in cooking and baking

 a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.

ANSWERS: 1. sling, 2. acidic, 3. microbe, 4. viscosity, 5. fling, 6. molasses, 7. teeny, 8. molasses, 9. mucus

ANSWERS: 10. paramecium, 11. slime, 12. ingenious, 13. physicist, 14. outnumber, 15. inhabit, 16. glide, 17. cork, 18. ulcer, 19. deform

ANSWERS: 20. paddle, 21. wag, 22. slimy, 23. swish, 24. physicist, 25. microbe, 26. swish, 27. acidic, 28. fling, 29. microscopic, 30. slime, 31. pylorus

ANSWERS: 32. grapple, 33. outnumber, 34. ingenious, 35. paddle, 36. paramecium, 37. microscopic, 38. slimy, 39. glide, 40. deform, 41. sling, 42. wag

ANSWERS: 43. inhabit, 44. helix, 45. cork, 46. grapple, 47. pylorus, 48. helix, 49. teeny, 50. ulcer, 51. viscosity, 52. mucus

protection, etc.

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ANSWERS:					

Session 3: Fill in the Blanks

1.	The DNA molecule is shaped like a double
n.	a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
2.	The boarders glided across the crystal-clear waters of the cove.
n.	a flat, usually wooden implement with a handle used for stirring, mixing, or beating a liquid or substance
3.	He needed to with structural reforms to improve the company's revenue.
<i>v</i> .	to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
4.	The heat from the fire the plastic parts of the appliance.
<i>v</i> .	to change or distort the shape or appearance of something; to become misshapen or distorted
5.	She used a board to display her favorite photographs.
n.	a type of light and buoyant material that comes from the bark of the cork oak tree often used as a stopper for bottles or as a material for insulation or flooring; (verb) to close or seal something with a cork or similar stopper
6.	The cow lazily continued to its tail while grazing in the field.
<i>v</i> .	to move or swing back and forth or up and down in a lively or playful manner; to shake or quiver
7. v.	The eagle gracefully on the thermals, soaring above the mountains. to move smoothly and effortlessly
AN	SWERS: 1. helix, 2. paddle, 3. grapple, 4. deformed, 5. cork, 6. wag, 7. glided

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25.	The colony flourished in the petri dish, providing a perfect sample for our experiment.
n.	a single-celled freshwater organism characterized by a slipper-like shape and the presence of cilia, used for movement and food gathering
26.	He was provoked to the draft on the floor.
v.	to throw or push something or someone with force or recklessness, especially because you are angry
AN	SWERS: 25. paramecium, 26. fling

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