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Vocabulary Builder Reference from...

Juna Kollmeier: The most detailed map of galaxies, black holes and stars ever made | TED Talk https://www.ted.com/talks/juna_kollmeier_the_most_d etailed_map_of_galaxies_black_holes_and_stars_ev er_made



Advanced Words Only

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Session 1: Word List

fascinate

to attract and hold the attention of someone deeply and irresistibly

synonym: captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young The magic tricks **fascinated** the children.

relic

 an object from a previous era, especially one of historical value

synonym: whiff, vestige, antique

(1) historical relic, (2) holy relics

This bronze sword is a **relic** of ancient times.

tusk

 a long, pointed tooth, usually found in animals such as elephants, walruses, or wild boars, which protrudes from the mouth and is used as a weapon or for digging

synonym: ivory, tush, horn

(1) tusk of an elephant, (2) tusk-like tooth

The ivory poacher was arrested for possession of illegal tusks.

carving

n. the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design

synonym: sculpture, engraving, sculpture

(1) a wood carving, (2) carving instrument

The intricate **carving** on the wooden box was the work of a master craftsman.

neolithic

adj. (also called New Stone Age) the period of human history that followed the end of the last ice age and that is characterized by the development of agriculture and the use of polished stone tools

synonym: ancient, old, primitive

(1) the **neolithic** age, (2) **neolithic** society

The **neolithic** village was located near a river.

clam

- a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
- (1) giant clam, (2) shuck a clam

The **clam** digs through the sand to a significant depth.

astronomer

- n. a physicist who studies astronomy
- synonym: stargazer, cosmologist, astrophysicist
- (1) amateur astronomer, (2) solar astronomer

This question has fascinated solar **astronomers** for decades.

unrelenting

 adj. not easing or slackening in intensity; persistent and unwavering in pursuit of a goal

synonym: relentless, persistent, unyielding

(1) unrelenting pressure, (2) unrelenting pursuit

The **unrelenting** heat made it difficult to sleep.

observable

- adj. that can be noticed or seensynonym: visible, perceptible, detectable
- (1) observable change, (2) experimentally observable

Any theorem relies on both **observable** fact and assumption.

bestie

 a term of endearment used to describe one's closest friend, a term that connotes a deep and unbreakable bond between the two friends synonym: friend, pal, buddy

(1) bestie bond, (2) longtime bestie

I love having a loyal and supportive **bestie** like her in my life.

craftsman

 a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials

synonym: artisan, mechanic, workman

(1) craftsman skill, (2) a subtle craftsman

The adept **craftsman** carefully carved the wooden figurine with precision and skill.

shepherd

a person who tends and guards sheep, especially in a rural area

synonym: herder, flock-keeper, sheepdog

(1) **shepherd** boy, (2) sheep without a **shepherd**The **shepherd's** dog helped keep the sheep in line and protect them from predators.

hemisphere

- n. half of the terrestrial globe; half of a sphere
- (1) northern **hemisphere**, (2) cerebral **hemisphere**This weather pattern is unique to the southern **hemisphere**.

spectrograph

an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies

synonym: spectrometer, spectroscope, instrument

(1) **spectrograph** analysis, (2) acoustic **spectrograph** The **spectrograph** data showed that the element was composed of multiple spectral lines.

unravel

- v. undo twisted, knitted, or woven threads by separating it synonym: separate, unknot, ravel
- (1) unravel a knit, (2) unravel a plot

Detectives are still attempting to unravel the mystery of his

death.

perplexing

adj. causing confusion or uncertainty; difficult to understand or explain; puzzling or mystifying

synonym: puzzling, confusing, baffling

(1) **perplexing** situation, (2) **perplexing** problem

The novel's ambiguous ending left readers with a **perplexing** message.

incarnate

adj. in bodily form; embodied

synonym: embodied, personified, manifested

(1) incarnate spirit, (2) a devil incarnate

The ancient people worshiped the **incarnate** deity.

animate

- v. to make something full of interest and energy synonym: invigorate, energize, enliven
- (1) animate the body, (2) animate his soul

The positive attitude of the supervisor **animated** the discussion.

smoosh

v. to crush or flatten something; to press or squeeze something into a soft or shapeless mass

synonym: squash, mash, flatten

(1) **smooshed** my sandwich, (2) **smoosh** the delicate flowers

She had to **smoosh** the berries to make a jam, but it was worth it for the delicious taste.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) emit a gamma ray, (2) emit air pollution

During the unloading, the container box **emits** a clicking sound.

disturb

v. to interrupt someone who is trying to work, sleep, etc.

synonym: agitate, bother, intrude

(1) disturb the peace, (2) disturb his sleep

Tourists frequently **disturb** the island's delicate natural balance.

cleave

v. to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively

synonym: split, sever, cleave

(1) **cleave** meat, (2) **cleave** the party

He swung the axe with all his might to **cleave** the wood in half.

arsenal

 a collection of weapons or military equipment stored in preparation for war or conflict; a collection of resources or tools available for use in a particular field or endeavor

synonym: storage, stockpile, armory

(1) arsenal of knowledge, (2) political arsenal

The police found a hidden **arsenal** of weapons in the suspect's house.

observatory

- a building designed and equipped to observe the planets, the stars, the weather, etc.
- (1) space **observatory**, (2) a meteorological **observatory** That astronomical **observatory** stands at the top of the mountain.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym: automated, mechanical, laborsaving

(1) robotic arm, (2) robotic guide operation

The surgeon removed the tumor using **robotic** video assistance.

terrifying

adj. very frightening or intimidating

synonym: frightening, intimidating, alarming

(1) **terrifying** experience, (2) **terrifying** events

Large earthquakes often generate **terrifying** tsunamis.

explode

v. to burst or break open violently and noisily; to cause something to burst or break open

synonym: detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity

The old building **exploded** in a fiery inferno.

mow

v. to cut down and trim grass or other vegetation, usually with a machine such as a lawnmower; to cut down or harvest crops

synonym: cut, trim, clip

(1) mow the field, (2) mow a yard

My father likes to **mow** the lawn early on Saturday mornings.

recap

 to repeat or summarize what has been said, decided, etc.

synonym: outline, summarize, abstract

(1) **recap** key points, (2) **recap** briefly

Let me quickly **recap** these results.

clap

v. to hit your hands together and make a short and loud noise, mainly to show your approval or praise

synonym: applaud, spat, acclaim

(1) clap my hands, (2) clap a book shut

We **clapped** along with the singer's song.

astrophysics

- n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
- (1) **astrophysics** research, (2) neutrino **astrophysics**He was studying **astrophysics** in an attempt to understand the origins of the universe.

rubble

n. fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed

synonym: debris, ruins, wreckage

(1) clear away **rubble**, (2) **rubble-strewn** road After the earthquake, the city was left in a pile of **rubble**.

Session 2: Spelling

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- 2. in____te spirit
- 3. per____ng problem
- 4. ne____ic society

- longtime be___e
- 6. ast____ics research
- 7. di___b the peace
- 8. e__t a gamma ray

- v. to crush or flatten something; to press or squeeze something into a soft or shapeless mass
- adj. in bodily form; embodied
- adj. causing confusion or uncertainty;difficult to understand or explain;puzzling or mystifying
- adj. (also called New Stone Age) the period of human history that followed the end of the last ice age and that is characterized by the development of agriculture and the use of polished stone tools
- a term of endearment used to describe one's closest friend, a term that connotes a deep and unbreakable bond between the two friends
- n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
- v. to interrupt someone who is trying to work, sleep, etc.
- v. to give off or send out something such as light, heat, sound, gas, etc.

ANSWERS: 1. smoosh, 2. incarnate, 3. perplexing, 4. neolithic, 5. bestie, 6. astrophysics, 7. disturb, 8. emit

ANSWERS: 9. terrifying, 10. explode, 11. tusk, 12. observatory, 13. mow, 14. clap, 15. unravel, 16. observable, 17. relic, 18. spectrograph

28. the ne	ic age	adj.	(also called New Stone Age) the period of human history that followed the end of the last ice age and that is characterized by the development of agriculture and the use of polished stone tools
29. fate	the young	ν.	to attract and hold the attention of someone deeply and irresistibly
30. tk-like to	ooth	n.	a long, pointed tooth, usually found in animals such as elephants, walruses, of wild boars, which protrudes from the mouth and is used as a weapon or for digging
31. exe ir	n popularity	v.	to burst or break open violently and noisily; to cause something to burst or break open
32. cp my ha	ands	v.	to hit your hands together and make a short and loud noise, mainly to show your approval or praise
33. sheep with	out a shrd	n.	a person who tends and guards sheep, especially in a rural area
34. unr	ng pressure	adj.	not easing or slackening in intensity; persistent and unwavering in pursuit of a goal
35. cle me	at	ν.	to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively
36. shrd k	роу	n.	a person who tends and guards sheep, especially in a rural area

ANSWERS: 37. clam, 38. fascinate, 39. cleave, 40. astronomer, 41. hemisphere, 42 astrophysics, 43. incarnate, 44. craftsman, 45. recap, 46. astronomer, 47. arsenal

48. bee bond	n.	a term of endearment used to describe one's closest friend, a term that connotes a deep and unbreakable bond between the two friends
49. acoustic speaph	n.	an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies
50. roc arm	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
51. cran skill	n.	a skilled worker who creates handmade objects, especially one who works with wood, metal, or other materials
52. northern hemre	n.	half of the terrestrial globe; half of a sphere
53. rue-strewn road	n.	fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed
54. roc guide operation	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
55. cag instrument	n.	the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
ANSWERS: 48. bestie, 49. spectrograph, 53. rubble, 54. robotic, 55. carving	50. r	obotic, 51. craftsman, 52. hemisphere,

56.	terng experience	adj.	very frightening or intimidating
57.	a wood cag	n.	the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
58.	rep briefly	<i>v</i> .	to repeat or summarize what has been said, decided, etc.
59.	m_w the field	v.	to cut down and trim grass or other vegetation, usually with a machine such as a lawnmower; to cut down or harvest crops
60.	unrng pursuit	adj.	not easing or slackening in intensity; persistent and unwavering in pursuit of a goal
61.	unI a knit	v.	undo twisted, knitted, or woven threads by separating it
62.	experimentally obsle	adj.	that can be noticed or seen
63.	ane his soul	<i>v</i> .	to make something full of interest and energy
64.	et air pollution	<i>v</i> .	to give off or send out something such as light, heat, sound, gas, etc.

ANSWERS: 56. terrifying, 57. carving, 58. recap, 59. mow, 60. unrelenting, 61. unravel, 62. observable, 63. animate, 64. emit

Session 3: Fill in the Blanks

1.	Detectives are still attempting to the mystery of his death.
<i>v</i> .	undo twisted, knitted, or woven threads by separating it
2.	During the unloading, the container box a clicking sound.
ν.	to give off or send out something such as light, heat, sound, gas, etc.
3.	The ivory poacher was arrested for possession of illegal
n.	a long, pointed tooth, usually found in animals such as elephants, walruses, or wild boars, which protrudes from the mouth and is used as a weapon or for digging
4.	This weather pattern is unique to the southern
n.	half of the terrestrial globe; half of a sphere
5.	I love having a loyal and supportive like her in my life.
n.	a term of endearment used to describe one's closest friend, a term that connotes a deep and unbreakable bond between the two friends
6.	The surgeon removed the tumor using video assistance.
adj	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
7.	That astronomical stands at the top of the mountain.
n.	a building designed and equipped to observe the planets, the stars, the weather, etc.
8.	The digs through the sand to a significant depth.
n.	a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
	SWERS: 1. unravel, 2. emits, 3. tusks, 4. hemisphere, 5. bestie, 6. robotic, 7. servatory, 8. clam

9.	The magic tricks the children.
<i>v</i> .	to attract and hold the attention of someone deeply and irresistibly
10.	He was studying in an attempt to understand the origins of the universe.
n.	the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
11.	He swung the axe with all his might to the wood in half.
v.	to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively
12.	This bronze sword is a of ancient times.
n.	an object from a previous era, especially one of historical value
13.	After the earthquake, the city was left in a pile of
n.	fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed
14.	The old building in a fiery inferno.
<i>v</i> .	to burst or break open violently and noisily; to cause something to burst or break open
15.	This question has fascinated solar for decades.
n.	a physicist who studies astronomy
16.	Let me quickly these results.
ν.	to repeat or summarize what has been said, decided, etc.
	SWERS: 9. fascinated, 10. astrophysics, 11. cleave, 12. relic, 13. rubble, 14. bloded, 15. astronomers, 16. recap

17. ⁻	Гhe	heat made it difficult to sleep.	
adj.	not easing goal	g or slackening in intensity; persistent and unwavering in pursu	it of a
18	Any theorer	m relies on both fact and assumption.	
adj.	that can b	e noticed or seen	
19. ⁻	Γhe intricate	e on the wooden box was the work of a master crafts	man.
n.		process of cutting or shaping a hard material, such as wood or cific form or design	r stone,
20.	Γhe police f	found a hidden of weapons in the suspect's house.	
n.		on of weapons or military equipment stored in preparation for w collection of resources or tools available for use in a particular	
21. ⁻	The ancient	t people worshiped the deity.	
adj.	in bodily fo	orm; embodied	
	She had to a	the berries to make a jam, but it was worth it for the de	elicious
v.	to crush o shapeless	or flatten something; to press or squeeze something into a soft of mass	or
23. ⁻	The positive	e attitude of the supervisor the discussion.	
<i>v</i> .	to make s	omething full of interest and energy	
24. ⁻	Tourists free	quently the island's delicate natural balance.	
v.	to interrup	ot someone who is trying to work, sleep, etc.	
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		. unrelenting, 18. observable, 19. carving, 20. arsenal, 21. inca 3. animated, 24. disturb	imate,

32. The	village was located near a river.
of the las	ed New Stone Age) the period of human history that followed the end it ice age and that is characterized by the development of agriculture use of polished stone tools
ANSWERS: 32	2. neolithic