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Sam Harris: Can we build AI without losing control over it? | TED Talk

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

Advanced Words Only

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Session 1: Word List

intuition

n. the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

synonym: instinct, gut feeling, sixth sense

(1) creative **intuition**, (2) **intuition** research

Some studies suggest that people's **intuitions** can be influenced by their experiences and biases.

terrifying

adj. very frightening or intimidating

synonym: frightening, intimidating, alarming

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

Large earthquakes often generate **terrifying** tsunamis.

famine

n. a severe shortage of food, often caused by drought, war, or economic reasons

synonym: hunger, starvation, drought

(1) **famine** relief, (2) coal **famine**

The severe **famine** caused by the drought has left many people without food.

catastrophe

n. a sudden event that causes extreme ruin and misfortune

synonym: disaster, calamity, cataclysm

(1) **catastrophe** risk management, (2) avoid climate

catastrophe

The lack of funds has resulted in a **catastrophe** for our university system.

grandchild

n. a child of someone's son or daughter

synonym: offspring, descendant, progeny

(1) **grandchild-grandparent** relationship, (2) **grandchild** development

The grandparents take care of their **grandchild** while the parents are at work.

marshal

n. a military officer of high rank or a person in charge of organizing or leading a parade or public event; a law enforcement official or officer responsible for maintaining order and enforcing regulations; (verb) to organize, arrange, or gather together resources, information, or people in a deliberate and systematic manner

synonym: marshal, commander, organizer

(1) **marshal** the books into their proper places, (2) deputy **marshal**

The event organizer appointed a professional **marshal** to manage the flow of traffic.

pandemic

n. an outbreak of a disease that affects many people over a very wide area

synonym: outbreak

(1) flu **pandemic**, (2) global **pandemic**

They fear a **pandemic** of a new type of virus.

asteroid

n. a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

synonym: minor planet, planetoid, rocky planetesimal

(1) **asteroid** mining, (2) **asteroid** explorer

Scientists are studying the composition and origins of the **asteroid** belt to understand the early solar system better.

spontaneously

adv. in a way that is natural, not planned or forced, and often sudden

synonym: impromptu, automatically, immediately

(1) recover **spontaneously** after five days, (2) this shift occurs **spontaneously**

The electrical cord **spontaneously** combusted.

malevolent

adj. having or showing a desire to cause harm or evil to others

synonym: evil, malicious, wicked

(1) **malevolent** stars, (2) **malevolent** act

She had a **malevolent** intention to harm her enemy.

divergence

n. the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal

synonym: divergency, deviation, discrepancy

(1) **divergence** angle, (2) ideological **divergence**

The **divergence** in opinions among the team members led to a delay in completing the project.

annihilate

v. to destroy completely; to cause something to cease to exist

synonym: destroy, obliterate, eradicate

(1) **annihilate** the enemy, (2) **annihilate** all doubts

The virus had the potential to **annihilate** entire populations if left unchecked.

qualm

n. an uneasy feeling of doubt, uncertainty, or apprehension, often about the morality or propriety of action; a sudden fit or attack of pain or nausea

synonym: unease, apprehension, doubt

(1) **qualms** of conscience, (2) moral **qualms**

The politician didn't seem to have any **qualms** about lying to his constituents.

superintelligence

n. a hypothetical agent, for example, a computer or space alien, that possesses intelligence far surpassing that of humankind

(1) digital **superintelligence**, (2) artificial **superintelligence**

He is looking for evidence of the existence of **superintelligence** from cosmic signals.

superhuman

adj. possessing abilities or characteristics that exceed those of normal humans; beyond human capacity or capability

synonym: supernatural, inhuman, beyond human

(1) **superhuman** beings, (2) **superhuman** effort

The athlete's **superhuman** strength allowed him to lift twice his body weight.

Alzheimer

n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym: dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors

My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

precarious

adj. not securely held or in position; dangerously unstable or uncertain; dependent on chance or uncertain conditions

synonym: precariousness, instability, uncertainty

(1) **precarious** job, (2) **precarious** financial situation

She had a **precarious** hold on the ladder and was afraid to move.

unreliable

adj. not able to be trusted or depended on

synonym: inconsistent, erratic, undependable

(1) prove **unreliable**, (2) **unreliable** source of information

By incorrect assumption, statistics can be notoriously **unreliable**.

physicist

n. 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.

depress

v. to make someone feel sad, low in spirits, or without hope; to make markets, businesses, etc., less active
synonym: sadden, discourage, deflate

(1) **depress** their spirits, (2) **depress** crop prices
The economic recession **depressed** the housing market.

conceive

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

synonym: imagine, envision, concoct

(1) **conceive** of an idea, (2) **conceive** a child
I can't **conceive** he'd want to harm us.

biochemical

adj. relating to the chemical processes and substances that occur within living organisms

synonym: molecular, biological

(1) **biochemical** reaction, (2) complex **biochemical**
Biochemical research is essential to understanding the complex chemical reactions in living organisms.

intellect

n. the ability to think logically and comprehend information, especially at an advanced level

synonym: mind, brightness, cleverness

(1) enrich my **intellect**, (2) human **intellect**
Your **intellect** is capable of distinguishing among similar objects.

constrain

v. to restrict or limit someone or something's freedom or ability to do something

synonym: restrict, limit, confine

(1) **constrain** his freedom, (2) **constrain** information flow
The political situation **constrained** the country's economic growth and foreign relations.

drudgery

n. hard, menial, and tedious work; a routine, monotonous task that is considered boring or unpleasant

synonym: tedium, laboriousness, grind

(1) office **drudgery**, (2) daily **drudgery**

The tedious **drudgery** of answering phones all day made me want to quit my job.

ape

n. a large animal with long arms, no tail, and usually a lot of body hair, including gorillas, chimpanzees, orangutans, and gibbons

synonym: monkey, primate, simian

(1) jungle **ape**, (2) play the **ape**

The scientist studied the behavior of **apes** in the wild.

wardrobe

n. a collection or set of clothing, especially for a particular occasion or purpose; a piece of furniture designed for storing clothes or personal belongings

synonym: clothing, attire, closet

(1) walk-in **wardrobe**, (2) minimalist **wardrobe**

Her **wardrobe** selection included several pieces from high-end designer brands.

starve

v. to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance

synonym: famish, hunger

(1) **starve** for a victory, (2) **starve** to death

If you don't eat soon, you're going to **starve**.

cyber

adj. relating to or involving computers, computer networks, or virtual reality

synonym: digital, computer, Internet

(1) **cyber** bullying, (2) **cyber** crime

Cyber espionage between countries can have serious consequences.

rumor

n. a piece of unverified information of uncertain origin that is spread by word of mouth

synonym: gossip, whisper, talk

(1) a false **rumor**, (2) **rumor** mill

There was a baseless **rumor** that the company was going bankrupt.

berserk

adj. in a state of wild, frenzied, or unrestrained behavior; acting or behaving in a violent, irrational, or uncontrollable manner

synonym: crazed, frenzied, wild

(1) run **berserk**, (2) a **berserk** rage

The fans went **berserk** when their team scored the winning goal in the game's final seconds.

frightening

adj. causing fear or alarm, or very surprising and alarming

synonym: scary, terrifying, alarming

(1) cast **frightening** eyes, (2) **frightening** experience

The news of the pandemic was a **frightening** reminder of the fragility of human health.

reassure

v. to cause someone to feel sure; to give or restore confidence

synonym: comfort, soothe, bolster

(1) **reassure** anxious patients, (2) **reassure** market

The pilot tried to **reassure** the customers that the planes were safe.

overpopulation

n. a situation in which the number of people or living organisms in a particular area or environment exceeds the carrying capacity or resources of that area or environment

synonym: population explosion, demographic burden, overcrowding

(1) **overpopulation** problem, (2) **overpopulation** crisis

Many animal species are at risk of extinction due to human **overpopulation** and habitat destruction.

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict
Internet traffic volumes have increased significantly with the advent of **smartphones**.

moth

n. an insect with wings similar to a butterfly that travels at night and is attracted to light

(1) **moth** larva, (2) **moth** attracted to the light
The **moth** is a serious threat to the farm's output.

graft

n. a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods

synonym: transplant, implantation, bribery

(1) **graft** surgery, (2) anti- **graft** law

The patient's skin **graft** procedure was successful, and he was released from the hospital.

limbic

adj. of or relating to the system of the brain that supports a variety of functions, including emotion, behavior, long-term memory, and olfaction

(1) **limbic** cortex, (2) **limbic** epilepsy

The **limbic** brain region responded readily to negative or sad sounds.

neuroscience

n. the scientific study of the function, structure, and disorder of the brain and the nervous system

(1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

cognition

n. the psychological process of perception and learning and reasoning; the mental action or process by which

knowledge and understanding are developed in the
mind

synonym : awareness, understanding, comprehension

(1) social **cognition**, (2) **cognition** disorder

The professor focused on the research of infant **cognition**.

Session 2: Spelling

1. st___e for a victory
v. to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance
2. cy__r bullying
adj. relating to or involving computers, computer networks, or virtual reality
3. global pa____ic
n. an outbreak of a disease that affects many people over a very wide area
4. sup_____an effort
adj. possessing abilities or characteristics that exceed those of normal humans; beyond human capacity or capability
5. de____s their spirits
v. to make someone feel sad, low in spirits, or without hope; to make markets, businesses, etc., less active
6. flu pa____ic
n. an outbreak of a disease that affects many people over a very wide area
7. in_____on research
n. the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
8. complex bio_____al
adj. relating to the chemical processes and substances that occur within living organisms
9. daily dr____ry
n. hard, menial, and tedious work; a routine, monotonous task that is considered boring or unpleasant

ANSWERS: 1. starve, 2. cyber, 3. pandemic, 4. superhuman, 5. depress, 6. pandemic, 7. intuition, 8. biochemical, 9. drudgery

10. de____s crop prices *v.* to make someone feel sad, low in spirits, or without hope; to make markets, businesses, etc., less active
11. recover spo_____sly after five days *adv.* in a way that is natural, not planned or forced, and often sudden
12. a false ru__r *n.* a piece of unverified information of uncertain origin that is spread by word of mouth
13. the branch of neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
14. m__h larva *n.* an insect with wings similar to a butterfly that travels at night and is attracted to light
15. m__h attracted to the light *n.* an insect with wings similar to a butterfly that travels at night and is attracted to light
16. re____re anxious patients *v.* to cause someone to feel sure; to give or restore confidence
17. gr__t surgery *n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods
18. enrich my in_____ct *n.* the ability to think logically and comprehend information, especially at an advanced level

ANSWERS: 10. depress, 11. spontaneously, 12. rumor, 13. neuroscience, 14. moth, 15. moth, 16. reassure, 17. graft, 18. intellect

19. Al_____er's risk factors *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
20. digital sup_____nce *n.* a hypothetical agent, for example, a computer or space alien, that possesses intelligence far surpassing that of humankind
21. li___c epilepsy *adj.* of or relating to the system of the brain that supports a variety of functions, including emotion, behavior, long-term memory, and olfaction
22. prove unr_____le *adj.* not able to be trusted or depended on
23. as_____id explorer *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
24. unr_____le source of information *adj.* not able to be trusted or depended on
25. ann_____te the enemy *v.* to destroy completely; to cause something to cease to exist
26. run be_____k *adj.* in a state of wild, frenzied, or unrestrained behavior; acting or behaving in a violent, irrational, or uncontrollable manner
27. sup_____an beings *adj.* possessing abilities or characteristics that exceed those of normal humans; beyond human capacity or capability
28. div_____ce angle *n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal

ANSWERS: 19. Alzheimer, 20. superintelligence, 21. limbic, 22. unreliable, 23. asteroid, 24. unreliable, 25. annihilate, 26. berserk, 27. superhuman, 28. divergence

29. ove_____ion crisis *n.* a situation in which the number of people or living organisms in a particular area or environment exceeds the carrying capacity or resources of that area or environment
30. deputy ma_____l *n.* a military officer of high rank or a person in charge of organizing or leading a parade or public event; a law enforcement official or officer responsible for maintaining order and enforcing regulations; (verb) to organize, arrange, or gather together resources, information, or people in a deliberate and systematic manner
31. ann_____te all doubts *v.* to destroy completely; to cause something to cease to exist
32. social co_____on *n.* the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind
33. a be_____k rage *adj.* in a state of wild, frenzied, or unrestrained behavior; acting or behaving in a violent, irrational, or uncontrollable manner
34. play the a_e *n.* a large animal with long arms, no tail, and usually a lot of body hair, including gorillas, chimpanzees, orangutans, and gibbons
35. co_____in his freedom *v.* to restrict or limit someone or something's freedom or ability to do something

ANSWERS: 29. overpopulation, 30. marshal, 31. annihilate, 32. cognition, 33. berserk, 34. ape, 35. constrain

36. co____ve of an idea *v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
37. fa___e relief *n.* a severe shortage of food, often caused by drought, war, or economic reasons
38. avoid climate cat_____he *n.* a sudden event that causes extreme ruin and misfortune
39. minimalist wa_____be *n.* a collection or set of clothing, especially for a particular occasion or purpose; a piece of furniture designed for storing clothes or personal belongings
40. st___e to death *v.* to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance
41. co____ve a child *v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
42. creative in_____on *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
43. gra_____ld-grandparent relationship *n.* a child of someone's son or daughter
44. ove_____ion problem *n.* a situation in which the number of people or living organisms in a particular area or environment exceeds the carrying capacity or resources of that area or environment
45. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet

ANSWERS: 36. conceive, 37. famine, 38. catastrophe, 39. wardrobe, 40. starve, 41. conceive, 42. intuition, 43. grandchild, 44. overpopulation, 45. smartphone

55. re_____re market *v.* to cause someone to feel sure; to give or restore confidence
56. ma_____l the books into their proper places *n.* a military officer of high rank or a person in charge of organizing or leading a parade or public event; a law enforcement official or officer responsible for maintaining order and enforcing regulations; (verb) to organize, arrange, or gather together resources, information, or people in a deliberate and systematic manner
57. anti-gr__t law *n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods
58. this shift occurs spo_____sly *adv.* in a way that is natural, not planned or forced, and often sudden
59. ter_____ng experience *adj.* very frightening or intimidating
60. co_____in information flow *v.* to restrict or limit someone or something's freedom or ability to do something
61. cast fri_____ng eyes *adj.* causing fear or alarm, or very surprising and alarming
62. ter_____ng events *adj.* very frightening or intimidating
63. co_____on disorder *n.* the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind

ANSWERS: 55. reassure, 56. marshal, 57. graft, 58. spontaneously, 59. terrifying, 60. constrain, 61. frightening, 62. terrifying, 63. cognition

64. mal_____nt stars *adj.* having or showing a desire to cause harm or evil to others
65. fri_____ng experience *adj.* causing fear or alarm, or very surprising and alarming
66. qu__ms of conscience *n.* an uneasy feeling of doubt, uncertainty, or apprehension, often about the morality or propriety of action; a sudden fit or attack of pain or nausea
67. mal_____nt act *adj.* having or showing a desire to cause harm or evil to others
68. moral qu__ms *n.* an uneasy feeling of doubt, uncertainty, or apprehension, often about the morality or propriety of action; a sudden fit or attack of pain or nausea
69. cy__r crime *adj.* relating to or involving computers, computer networks, or virtual reality
70. cat_____he risk management *n.* a sudden event that causes extreme ruin and misfortune
71. a theoretical concept in neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
72. li___c cortex *adj.* of or relating to the system of the brain that supports a variety of functions, including emotion, behavior, long-term memory, and olfaction
73. office dr_____ry *n.* hard, menial, and tedious work; a routine, monotonous task that is considered boring or unpleasant
74. coal fa___e *n.* a severe shortage of food, often caused by drought, war, or economic reasons

ANSWERS: 64. malevolent, 65. frightening, 66. qualm, 67. malevolent, 68. qualm, 69. cyber, 70. catastrophe, 71. neuroscience, 72. limbic, 73. drudgery, 74. famine

75. bio_____al reaction *adj.* relating to the chemical processes and substances that occur within living organisms
76. ideological div_____ce *n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal
77. pre_____us financial situation *adj.* not securely held or in position; dangerously unstable or uncertain; dependent on chance or uncertain conditions
78. gra_____ld development *n.* a child of someone's son or daughter
79. Al_____er's brain *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
80. theoretical ph_____st *n.* a scientist who specializes in the field of physics

ANSWERS: 75. biochemical, 76. divergence, 77. precarious, 78. grandchild, 79. Alzheimer, 80. physicist

Session 3: Fill in the Blanks

1. The _____ in opinions among the team members led to a delay in completing the project.
 - n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal

2. The tedious _____ of answering phones all day made me want to quit my job.
 - n.* hard, menial, and tedious work; a routine, monotonous task that is considered boring or unpleasant

3. The virus had the potential to _____ entire populations if left unchecked.
 - v.* to destroy completely; to cause something to cease to exist

4. The event organizer appointed a professional _____ to manage the flow of traffic.
 - n.* a military officer of high rank or a person in charge of organizing or leading a parade or public event; a law enforcement official or officer responsible for maintaining order and enforcing regulations; (verb) to organize, arrange, or gather together resources, information, or people in a deliberate and systematic manner

5. 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

6. Your _____ is capable of distinguishing among similar objects.
 - n.* the ability to think logically and comprehend information, especially at an advanced level

ANSWERS: 1. divergence, 2. drudgery, 3. annihilate, 4. marshal, 5. constrained, 6. intellect

7. The athlete's _____ strength allowed him to lift twice his body weight.
adj. possessing abilities or characteristics that exceed those of normal humans; beyond human capacity or capability
8. Many animal species are at risk of extinction due to human _____ and habitat destruction.
n. a situation in which the number of people or living organisms in a particular area or environment exceeds the carrying capacity or resources of that area or environment
9. The _____ brain region responded readily to negative or sad sounds.
adj. of or relating to the system of the brain that supports a variety of functions, including emotion, behavior, long-term memory, and olfaction
10. The grandparents take care of their _____ while the parents are at work.
n. a child of someone's son or daughter
11. The news of the pandemic was a _____ reminder of the fragility of human health.
adj. causing fear or alarm, or very surprising and alarming
12. Her _____ selection included several pieces from high-end designer brands.
n. a collection or set of clothing, especially for a particular occasion or purpose; a piece of furniture designed for storing clothes or personal belongings
13. There was a baseless _____ that the company was going bankrupt.
n. a piece of unverified information of uncertain origin that is spread by word of mouth
14. If you don't eat soon, you're going to _____.
v. to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance

ANSWERS: 7. superhuman, 8. overpopulation, 9. limbic, 10. grandchild, 11. frightening, 12. wardrobe, 13. rumor, 14. starve

15. Some studies suggest that people's _____ can be influenced by their experiences and biases.
- n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
16. She had a _____ intention to harm her enemy.
- adj.* having or showing a desire to cause harm or evil to others
17. By incorrect assumption, statistics can be notoriously _____.
- adj.* not able to be trusted or depended on
18. Large earthquakes often generate _____ tsunamis.
- adj.* very frightening or intimidating
19. The fans went _____ when their team scored the winning goal in the game's final seconds.
- adj.* in a state of wild, frenzied, or unrestrained behavior; acting or behaving in a violent, irrational, or uncontrollable manner
20. The scientist studied the behavior of _____ in the wild.
- n.* a large animal with long arms, no tail, and usually a lot of body hair, including gorillas, chimpanzees, orangutans, and gibbons
21. She had a _____ hold on the ladder and was afraid to move.
- adj.* not securely held or in position; dangerously unstable or uncertain; dependent on chance or uncertain conditions
22. The pilot tried to _____ the customers that the planes were safe.
- v.* to cause someone to feel sure; to give or restore confidence

ANSWERS: 15. intuitions, 16. malevolent, 17. unreliable, 18. terrifying, 19. berserk, 20. apes, 21. precarious, 22. reassure

23. _____ espionage between countries can have serious consequences.
adj. relating to or involving computers, computer networks, or virtual reality
24. The _____ is a serious threat to the farm's output.
n. an insect with wings similar to a butterfly that travels at night and is attracted to light
25. Internet traffic volumes have increased significantly with the advent of _____.
n. a mobile phone that functions as a computer and connects to the Internet
26. The patient's skin _____ procedure was successful, and he was released from the hospital.
n. a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods
27. The politician didn't seem to have any _____ about lying to his constituents.
n. an uneasy feeling of doubt, uncertainty, or apprehension, often about the morality or propriety of action; a sudden fit or attack of pain or nausea
28. I can't _____ he'd want to harm us.
v. to have or develop an idea, a plan, etc. in mind; to become pregnant
29. The severe _____ caused by the drought has left many people without food.
n. a severe shortage of food, often caused by drought, war, or economic reasons
30. The professor focused on the research of infant _____.
n. the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind

ANSWERS: 23. Cyber, 24. moth, 25. smartphones, 26. graft, 27. qualms, 28. conceive, 29. famine, 30. cognition

31. My grandmother has _____ disease requires special care and attention from her caregivers.
- n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
32. He is looking for evidence of the existence of _____ from cosmic signals.
- n.* a hypothetical agent, for example, a computer or space alien, that possesses intelligence far surpassing that of humankind
33. Our university is famous for its professors, who are well-versed in behavioral _____.
- n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
34. The electrical cord _____ combusted.
- adv.* in a way that is natural, not planned or forced, and often sudden
35. Einstein was an outstanding and famous _____ of the 20th century.
- n.* a scientist who specializes in the field of physics
36. Scientists are studying the composition and origins of the _____ belt to understand the early solar system better.
- n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
37. The economic recession _____ the housing market.
- v.* to make someone feel sad, low in spirits, or without hope; to make markets, businesses, etc., less active

ANSWERS: 31. Alzheimer's, 32. superintelligence, 33. neuroscience, 34. spontaneously, 35. physicist, 36. asteroid, 37. depressed

38. The lack of funds has resulted in a _____ for our university system.

n. a sudden event that causes extreme ruin and misfortune

39. They fear a _____ of a new type of virus.

n. an outbreak of a disease that affects many people over a very wide area

40. _____ research is essential to understanding the complex chemical reactions in living organisms.

adj. relating to the chemical processes and substances that occur within living organisms

ANSWERS: 38. catastrophe, 39. pandemic, 40. Biochemical