

1. <b>cognition</b>	the way in which information is processed and manipulated in remembering, thinking, and knowing	11. <b>steps in problem solving</b>	-find and frame a problem -develop good problem-solving strategies (subgoals, algorithms, heuristics) -evaluate solutions - rethink and redefine problems and solutions over time
2. <b>artificial intelligence (AI)</b>	a scientific field that focuses on creating machines capable of performing activities that require intelligence when they are done by people	12. <b>Maier String Problem</b>	using a wrench or tool to make a string into a pendulum, so that you can reach both strings to tie together
3. <b>thinking</b>	a mental process of manipulating information mentally by forming concepts, solving problems, making decisions, and reflecting critically or creatively	13. <b>fixation</b>	using a prior strategy and failing to look at a problem from a fresh new perspective
4. <b>cognitive psychology</b>	- approaches that sought to explain observational behavior by investigating mental processes and structures that we cannot directly observe - radical departure from behaviorism	14. <b>functional fixedness</b>	- failing to solve a problem as a result of fixation on a thing's usual functions - worse (stronger) in adulthood - failing to see that items can be used for wide variety of things
5. <b>concept</b>	- a mental category that is used to group objects, events, and characteristics; allows us to generalize and associate; aids memorization - a form of cognitive efficiency and economy	15. <b>reasoning</b>	the mental activity of transforming information to reach conclusions
6. <b>prototype model</b>	a model emphasizing that when people evaluate whether a given item reflects a certain concept, they compare the item with the most typical item in that category and look for a family resemblance with that items properties	16. <b>inductive reasoning</b>	- similar to bottom-up processing; reasoning from specific observations to make generalizations - specific >> general - application: forming general rules and concepts based on specific experiences and examples
7. <b>problem solving</b>	- the mental process of finding an appropriate way to attain a goal when the goal is not readily available - Step 1: find and frame the problem - Step 2: develop good problem solving strategies - Step 3: evaluate solution-- what is the criteria for success? - Step 4: rethink and redefine problems and solutions over time	17. <b>deductive reasoning</b>	similar to top-down processing; reasoning from a general case that is known to be true to a specific instance
8. <b>subgoals</b>	- intermediate goals or intermediate problems that put us in a better position for reaching the final goal or solution - example: breaking down studying into sections/topics/etc., and working on them in an organized sequence	18. <b>decision making</b>	the mental activity of evaluating alternatives and choosing among them; used to maximize outcome
9. <b>algorithms</b>	- strategies-including formulas, instructions, and the testing of all possible solutions-that guarantee a solution to a problem - examples: math formulas, recipes, driving directions, running/checking every possible solution (this one can be time-consuming) - guarantees success/solution	19. <b>two systems of reasoning and decision making</b>	automatic and controlled reasoning
10. <b>heuristics</b>	- shortcut strategies or guidelines that suggest a solution to a problem but do not guarantee an answer - does NOT guarantee success/solution - convenient (quick) - allows for automatic reactions	20. <b>system 1</b>	- automatic reasoning; rapid, heuristic, intuitive - frequently more accurate - research: people who make complex decisions after being distracted are more likely to make better decisions
		21. <b>system 2</b>	- controlled reasoning; slower, effortful, analytical
		22. <b>confirmation bias</b>	- the tendency to search for and use information that supports our ideas rather than refutes them - involves ignoring/failing to acknowledge other evidence
		23. <b>hindsight bias</b>	the tendency to report falsely, after the fact, that we accurately predicted an outcome

24. <b>availability heuristic</b>	a prediction about the probability of an event based on the ease of recalling or imagining similar events	40. <b>intelligence</b>	- all-purpose ability to do well on cognitive tasks, to solve problems, and to learn from experience (U.S. definition) - definition varies between cultures
25. <b>base rate fallacy</b>	the tendency to ignore information about general principles in favor of very specific but vivid information	41. <b>validity</b>	the extent to which a test measures what it is intended to measure
26. <b>representativeness heuristic</b>	- the tendency to make judgements about group membership based on physical appearances or the match between a person and one's stereotype of a group rather than on available base rate information - application: judging someone/something based on appearance	42. <b>reliability</b>	the extent to which a test yields a consistent, reproducible measure of performance
27. <b>critical thinking</b>	thinking reflectively and productively and evaluating the evidence	43. <b>standardization</b>	the development of uniform procedures for administering and scoring a test, and the creation of norms (performance standards) for that test
28. <b>mindfulness</b>	the state of being receptive to other ways of looking at things	44. <b>intelligence quotient (IQ)</b>	- an individual's mental age divided by chronological age multiplied by one hundred - $IQ = (MA/CA) \times 100$ - if mental age is older than chronological age = above average IQ - if mental age is lower than chronological age = below average IQ - IQ of 100 means mental age = chronological age
29. <b>open-mindedness</b>	- the state of being receptive to other ways of looking at things	45. <b>criterion validity</b>	does the test measure what it is supposed to measure?
30. <b>mindless behaviors</b>	behaviors that do not require thought or reflection	46. <b>norms</b>	normal distribution; the average intelligence level has increased from 100 in 1932, to 120 in 1997
31. <b>creative thinking</b>	the ability to think about something in novel and unusual ways and to devise unconventional solutions to problems	47. <b>mental age (MA)</b>	an individual's level of mental development relative to that of others
32. <b>creativity</b>	the ability to think about something in novel and unusual ways and to devise unconventional solutions to problems	48. <b>normal distribution</b>	a symmetrical, bell-shaped curve, with a majority of the scores falling in the middle of the possible range and few scores appearing toward the extremes of the range
33. <b>divergent thinking</b>	thinking that produces many solutions to the same problem	49. <b>chronological age (CA)</b>	one's actual age
34. <b>convergent thinking</b>	thinking that produces the single best solution to a problem	50. <b>cultural bias in test</b>	a type of bias that hinders certain groups of people and gives others an advantage
35. <b>flexibility and playful thinking</b>	reason for creative thinking: thinking outside of the box, relaxed and enjoyable thinking attitudes	51. <b>culture-fair test</b>	- intelligence tests that are intended to be culturally unbiased; impossible to be this completely - puzzle questions (content not seen prior in any culture)
36. <b>inner motivation</b>	reason for creative thinking: wanting to come up with solutions for yourself, not for others or outside benefits	52. <b>heritability</b>	the proportion of observable differences in a group that can be explained by differences in the genes of the group's members; 75% intelligence is this, increases with age
37. <b>willingness to face risk</b>	reason for creative thinking: criticized a lot and ability to cope with that, because more ideas and attempts will mean more failures (but also more successes!)		
38. <b>objective evaluation of work</b>	reason for creative thinking: desire to improve one's work, always criticizing one's own work		
39. <b>intelligent</b>	a person who has intelligence is this		

53. <b>Flynn effect</b>	- higher IQ scores worldwide because of higher education levels and less bias - shift to the right of the normal bell curve of IQ scores	69. <b>mathematical</b>	ability to calculate, quantify, consider propositions and hypotheses, and carry out complete mathematical operations - number/reasoning smart
54. <b>gifted</b>	possessing high intelligence (an IQ of 130 or higher) and/or superior talent in a particular area	70. <b>spatial</b>	the ability to think in three dimensions. -picture smart
55. <b>Stanford-Binet IQ</b>	initiated the modern field of intelligence testing and was one of the first examples of an adaptive test. IQ scale is normal distribution	71. <b>bodily-kinesthetic</b>	the capacity to manipulate objects and use a variety of physical skills. - body smart
56. <b>intellectual disability</b>	a condition of limited mental ability in which an individual has a low IQ, usually below 70 on a traditional intelligence test, and has difficulty adapting to everyday life - formerly called mental retardation	72. <b>musical</b>	the capacity to discern pitch, rhythm, timbre, and tone - musical smart
57. <b>organic intellectual disability</b>	may be caused by inherited physiology, injury, or disease affecting brain tissues, chemical or hormonal abnormalities, exposure to toxic materials, neurological impairment, or abnormal changes associated with aging.	73. <b>interpersonal</b>	the ability to understand and interact effectively with others. - people smart
58. <b>cultural-familial intellectual disability</b>	a disability we cannot account for. Cannot identify any genetic condition such as brain damage, etc.	74. <b>intrapersonal</b>	the capacity to understand oneself and one's thoughts and feelings, and to use such knowledge in planning and directing one's life. - self smart
59. <b>conceptual skills</b>	one of adoptive behavior deficits; means that one can think critically and solve problems	75. <b>naturalist</b>	Designates the human ability to discriminate among living things (plants, animals) as well as sensitivity to other features of the natural world (clouds, rock configurations) - nature smart
60. <b>social skills</b>	one of adoptive behavior deficits; means one can interact acceptably with others	76. <b>existentialist</b>	Sensitivity and capacity to tackle deep questions about human existence, such as the meaning of life, why do we die, and how did we get here. -reflective smart
61. <b>practical skills</b>	one of adoptive behavior deficits; means that one can carry out everyday life tasks	77. <b>multiple intelligences approach</b>	thinking that intelligence can be broken up into categories; Sternberg's theory had 3, Gardner's had 9
62. <b>Robert J. Sternberg</b>	created the triarchic theory of intelligence	78. <b>language</b>	a form of communication- whether spoken, written, or signed- that is based on a system of symbols
63. <b>triarchic theory of intelligence</b>	Sternberg's theory that intelligence comes in three forms - three forms: analytical intelligence, creative intelligence, practical intelligence	79. <b>infinite generativity</b>	the ability of language to produce an endless number of meaningful sentences
64. <b>analytical intelligence</b>	one of Sternberg's three forms of intelligence in his theory; means one can solve problems and think critically	80. <b>phonology</b>	a language's sound system
65. <b>creative intelligence</b>	one of Sternberg's three forms of intelligence in his theory; means that one can think outside of the box	81. <b>morphology</b>	a language's rules for word formation
66. <b>practical intelligence</b>	one of Sternberg's three forms of intelligence in his theory; means that one can complete everyday tasks	82. <b>syntax</b>	a language's rule for combining words to form acceptable grammar phrases and sentences
67. <b>Howard Gardner</b>	created a theory with 9 levels of intelligence; his theory is criticized because of no testing to support it	83. <b>semantics</b>	the meaning of words and sentences in a particular language
68. <b>verbal</b>	the ability to think in words and to use language to express and appreciate complex meanings. - word smart	84. <b>pragmatics</b>	the useful character of language and the ability of language to communicate even more meaning than is said; the purposefulness of language

85.	<b>linguistic relativity hypothesis</b>	"language determines thought"
86.	<b>language universals</b>	a pattern that occurs systematically across natural languages, potentially true for all of them
87.	<b>language milestones</b>	levels of linguistic ability as a baby develops into an adult
88.	<b>0-6 months</b>	cooing discrimination of vowels babbling present by this age
89.	<b>6-12 months</b>	babbling expands to include sounds of spoken language gestures used to communicate about objects first words usually occur at this age
90.	<b>12-18 months</b>	understands 50+ words on average by this age
91.	<b>18-24 months</b>	vocabulary increases to and average of 200 words two-words combinations by this age
92.	<b>2 years</b>	vocabulary rapidly increases correct use of plurals use of past tense use of some prepositions by this age
93.	<b>3-4 years</b>	mean length of utterances increases 3-4 morphemes in a sentence use of yes and no questions, and all questions use of negatives and imperatives increased awareness of pragmatics
94.	<b>5-6 years</b>	vocabulary reaches an average of about 10,000 words coordination of simple sentences
95.	<b>6-8 years</b>	vocabulary continues to increase rapidly more skilled use of syntactical rules conversational skills improve
96.	<b>9-11 years</b>	word definitions include synonyms conversational strategies continue to improve
97.	<b>11-14 years</b>	vocabulary increases with addition of more abstract words understanding of complex grammar forms increased understanding of function a word plays in a sentence understands metaphor and satire
98.	<b>15-20 years</b>	understands adult literary works
99.	<b>cognitive appraisal</b>	individual's interpretation of events in their lives as harmful, threatening, or challenging and their determination of whether they have the resources to cope effectively with the events
100.	<b>copng</b>	managing taxing circumstances, expanding effort to solve life's problems, and seeking to master or reduce stress

101.	<b>cognitive reappraisal</b>	regulating one's feelings about an experience by reinterpreting that experience or thinking about it in a different way or from a different angle
102.	<b>primary appraisal</b>	three types of this form of appraisal: already a problem something is threatening to happen there is a challenge (best way to think)
103.	<b>secondary appraisal</b>	form of appraisal: evaluate situations how to use resources to solve problems
104.	<b>benefit finding</b>	decreases negative feelings decreases amygdala use increases prefrontal cortex use thinking positively
105.	<b>Noam Chomsky</b>	- prewired to learn language (children all over the world acquire language at the same time)