
Index

- Alive
concept of (*see* Living thing)
constraining inductive projections,
150–159
introductory questions, 25–26
meaning of word “alive,” 16–18, 25–26,
148, 182
- Anglin, J., 18, 73, 78
- Animal, 72–76, 89, 183, 186–187
concept of animal constraining inductive
projection, 104–108, 118, 143–146, 183
meaning of word “animal,” 13, 73, 140,
183
as ontologically basic, 166–168
- Animism. *See* Childhood animism
- Anthony, S., 60
- Anthropomorphic traits, 21, 73
- Appearance-reality distinction, 11,
178–179
- Application of definition, 75, 85–86,
98–100
- Aristotelian mechanics, 5
- Asymmetry of projection, 128, 134,
135–139, 145, 159, 185, 187, 195
- Attribution patterns. *See* Patterns of
attribution
- Babies. *See* Patterns of attribution;
Reproduction
- Baillargeon, R., 13, 16, 191–192, 194
- Behrend, D., 18, 74, 78, 107–108
- Bernstein, A. C., 54–60
- Biological explanation, 41, 72, 188–189,
194
- Biological knowledge, 41, 71, 76–77,
82–83, 96–98, 109–110, 134, 139, 147,
160
- Biology, intuitive, 72, 161, 188–190
- Block, Eliza
concept of death, 26–27
concept of growth, personal identity,
65–68
- Blood, 46–48
- Bodily organs, 42–51. *See also* Patterns
of attribution
- Bodily processes, 43–51, 54–69, 184
- Bohan, J. B., 67
- Bulluck, M., 16, 194
- Carter, R., 149
- Category error, category mistake, 12, 163
biological predicates, 166–169
“heavy” and “light,” 170
- Causation, 15–16, 193–194. *See also*
Intentional causality; Mechanical
causality
- Characteristic features, 176
- Chi, M., 1, 3, 186
- Childhood animism, 10, 15–40
- Circulatory system, 46–48. *See also*
Patterns of attribution
- Classical view of concepts, 19–20
- Clement, J., 1, 7
- Clinical interview
what is alive, 16–17, 20–22, 23–26,
35
death, 61–65
reproduction, 54–60
- Coalescence, 5–6, 197
animal and plant, 189, 199
natural and violent motion, 5
- Comparison to exemplar, comparison to
people, 75, 86–87, 98–100, 120–125

- Conceptual change, 5–6, 189–190, 197–199
 coalescence, 5–6, 197, 199 (*see also* Coalescence)
 differentiation, 5–6, 197–199 (*see also* Differentiation)
 ontological core, 6 (*see also* Ontologically basic categories)
 property reanalyzed as a relation, 197
 Conceptual combination model, 141
 Conscious criterion for life, 35–39
 Constraints on induction, 194–195
 Container theory, 48
 Contento, I., 44
 Cowan, P. A., 54–60
 Crider, C., 47–48
 Crossing patterns, 120–124

 Damon, W., 53
 Death, 26–28, 60–65
 Deductive inference, 75, 83–85, 98–100, 192–193
 Defecation, 46
 Dennis, W., 28
 Density, 169–170, 190–191
 Differentiation, 5–6, 197–199
 alive-dead and alive-inanimate, 25–29, 189
 attribution patterns, animal properties, 79–82, 94–96, 116–118
 average velocity and instantaneous velocity, 5
 heat and temperature, 198–199
 intuitive biology and intuitive psychology, 139, 180
 mind and brain, 50
 size, weight, and density, 170, 198–199
 whole body and internal parts, 47–48
 Digestion, 43–46, 47. *See also* Patterns of attribution
 Diverging patterns, 120–124
 Dolgin, K., 18, 74, 78, 107–108
 Domain general change, 190
 Domain specific change, 190–191

 Emmerich, W., 52
 Essence, 174–175
 Explanation of development, 199–200

 Familiarity, 88
 Father, role of, in procreation, 57–60

 Flavell, J., 11, 13, 178, 194
 Foundational concepts, 193
 Fraiberg, S., 42–43

 Galilean mechanics, 5
 Gelman, R., 13, 14, 16, 74, 78, 107–108, 191–192, 194
 Gelman, S., 12, 171–173
 Gender, 51–54
 Gillert, E., 42–48, 50
 Glaser, R., 1, 3, 186
 Goldman, R. J., and Goldman, J. D. G., 54–60
 Golgi, 148–158
 Goodman, N., 195–197
 Gricean implicature, 139
 Growth, 65–69
 Guardo, C. J., 67

 Heart, 46–58. *See also* Patterns of attribution
 Human behavior, 69. *See also* Psychology
 Human body
 container theory, 48
 insides, 42–48 (*see also* Patterns of attribution)
 most important part, 43

 Impetus theory, 7
 Inductive projection, 8–9, 113–116, 161, 185
 from animal and plant, 149, 155–156
 constraints on, 195–197
 and natural kind terms, 171–173
 from single animal or plant, 152–155
 from two animals, 141–145, 156–158
 Information processing model, 75, 98–102, 108–109, 111–113, 125, 146–147, 185
 conceptual combination model, 141
 guessing model, 76, 101–104, 111–112, 124
 Model Type I, 75 (*see also* Deductive inference)
 Model Type II, 75 (*see also* Application of definition)
 Model Type III, 75 (*see also* Comparison to exemplar, comparison to people)
 Two-stage model, 141

- Inhelder, B., 169–170, 190–191
 Initial state, 200
 Innate quality space, 104–108
 Insides. *See* Human body
 Intentional causality, 15, 41, 69–70, 189–190, 193–194
 Introductory questions. *See* Alive
 Intuitive theory. *See* Biology; Mechanics; Psychology
- Johnson, C. N., 44, 48–51
 Justifications
 for attribution of animal properties, 85–87
 for attribution of life, 20–21, 29–33
- Keil, F., 12, 151, 163–171, 175–179, 196–197
 Klayman, J., 36
 Knowledge restructuring, 3, 5, 71, 135, 139, 161, 186–190
 strong, 5, 187–190 (*see also* Theory-change)
 weak, 5, 186–187 (*see also* Novice-expert shift)
 Kohlberg, L., 52
 Koocher, G. P., 61–64
 Kuhn, T., 4, 194
- Larkin, J., 3
 Laurendeau, M., 11, 17–18, 20–22
 Living thing, 10, 15–40, 182, 186–187
 constraining inductive projection, 148–149, 150–159
 as ontologically basic category, 168
- McCloskey, M., 3, 7
 Mapping problem. *See* Semantic problem
 Markman, E., 12, 171–173
 Matching patterns, 120–124
 Maternal object, 151
 M-constraint, 164, 169, 196–197
 Meaning. *See also* Semantic problem
 classical view, 11
 Mechanical causality, 15–16, 193–194
 Mechanical monkey, 88, 104–108
 Mechanics, intuitive, 7, 200
 Meck, E., 18, 74, 78, 107–108
 Mental acts, 49–51. *See also* Patterns of attribution
 Mind, 50–51
- Misconceptions, 1–3
 brain, 49–51
 digestion, 44
 mechanics, 7
 reproduction, 59
 Model. *See* Information processing model
 Mother, role of, in procreation, 57–60
- Nagy, M. H., 47, 60–64
 Natural kind, 171, 174–175
 “atom” as a natural kind term, 175
 “raccoon” and “skunk” as natural kind terms, 175–178
 Nervous system, 48–51. *See also* Patterns of attribution
 Novice-expert shift, 1–3, 7, 186–187, 192
- Omentum, 111, 114, 118–119, 141
 Ontologically basic categories, 162–163, 177–178. *See also* Category mistake
 animal as, 167–168, 178
 and intuitive theories, 169, 171
 living thing as, 168, 170, 182
 person as, 163
 physical object as, 163, 170
 Operational thinking, 192–193. *See also* Stages of development
 Ordering of the animals, 94
 Origin of babies, 54–57
- Parallel patterns, 120–124
 Patterns of attribution
 alive, 23–25, 38–39
 animal properties: eating, breathing, thinking, having a heart, having bones, having babies, sleeping, 77–78, 79, 89–96, 116–118, 125, 185
 golgi, 149–158
 mechanical monkey, 106–108
 role of familiarity, 88
 spleen and omentum, 118–135, 142–145
 talking and laughing, 108–109
 underattribution, 89–94, 101, 116
 Perceptually bound, young children as, 173
 Peripheral animals. *See* Ordering of the animals
 Person, 69, 183–184
 as mammal, 83, 94, 139, 187
 as prototypical possessor of animal properties, 104, 126–135
 Personal identity, 65–69

- Piaget, J., 11, 13–14, 20, 35, 39, 65–66, 190–194. *See also* Childhood animism; Stages of cognitive development
- Pinard, A., 11, 17–18, 20–22
- Plant, 33, 149–156
- Predicate, 163
- Problem solving, 1, 186
- Projection. *See* Inductive projection
- Prototypicality, 134. *See also* Person as prototypical animal
- Psychology, intuitive, 41, 69–70, 173, 188–190, 200
- Putnam, H., 19, 175
- Quine, W. V. O., 19, 104
- Raccoon, 175–180
- Rees, E., 13, 186
- Reorganization. *See* Knowledge restructuring
- Reproduction, 54–60. *See also* Patterns of attribution
- Research methods, 8–12. *See also* Appearance-reality distinction; Category error; Clinical interview; Inductive projection; Patterns of attribution
- Resistance to training, 51, 191–192
- Respiratory system, 47–48. *See also* Patterns of attribution
- Restaurant script, 201
- Restructuring. *See* Knowledge restructuring
- Rips, L., 113–114, 136
- Rosch, E., 19
- Russel, R. W., 28
- Safer, G., 61
- Semantic problem, 18, 182
 meaning of “alive,” 18–19, 28–29, 35, 140, 148–149, 182
 meaning of “animal,” 73–74, 140
- Shultz, T., 16, 194
- Similarity, 1, 3
 to exemplar reasoning, 75
 between people and animals, 76, 105–108, 111–112
 Tversky’s model of, 136–138, 194–195
- Single criteria definitions. *See* Classical view of concepts
- Size, 169–170
- Skunk, 175–180, 184
- Smith, C., 45, 102–104, 112, 151, 169–170, 192, 199, 201
- Sommers, F., 164
- Spanning relation, 163
- Spelke, E., 18, 74, 78, 107–108
- Spleen, 111, 114, 118–119, 141
- Stages of cognitive development, 13–14, 70–71
 concept of life, 17–35
 concrete operational thought, 13, 70, 190
 egocentric–nonegocentric shift, 13
 formal operational thought, 70
 preoperational thought, 13, 70, 190
- Stomach, 44
- Strong restructuring, 5–6, 187–188
 Aristotelian to Galilean mechanics, 5
 emergence of intuitive biology, 188–190
- Structural constraint on concepts, 164, 196–197
- Term, 163
- Theory, 4–5, 200–201
- Theory change, 4
 Aristotelian to Galilean mechanics, 5
 and conceptual change, 197–199
 and meaning change, 174–175
 and ontological development, 169–171, 197
- Theory emergence, 6, 70, 187–190
- Thompson, S. K., 52
- Training, failure of. *See* Resistance to training
- Tversky, A., 136–138, 194–195
- Two-stage model, 141
- Underattribution. *See* Patterns of attribution
- Vitamins, 45
- Voyat, G., 65–66
- Weak restructuring, 5–6, 186–187. *See also* Knowledge restructuring;
 Novice-expert shift
 chess, 6
- Weight, 169–170, 190–191
- Wellman, H., 44, 48–51
- Wiser, M., 7, 45, 151, 169–170, 198–199, 201
- Wittgenstein, L., 19