

Contents

x Acknowledgments

3 Sherry Turkle | *Introduction: Falling for Science*

PART I

MIT Students and Their Objects (1979–2007)

What Makes A Scientist?

WHAT WE SEE

- 42 Steven Schwartz | *Maps* (1982)
- 45 Thomas P. Hermitt | *Prisms* (1984)
- 47 Jennifer Beaudin | *Walls* (2002)
- 49 Andrew Sempere | *Holga Camera* (2004)

WHAT WE SENSE

- 54 Stephen Intille | *Sand Castles* (1992)
- 58 Joanna Berzowska | *The Body* (1996)
- 60 Matthew Grenby | *Bubbles* (1996)
- 63 Jonah Peretti | *Clay* (1999)
- 66 Diane Willow | *Mud* (1999)

WHAT WE MODEL

- 70 Lauren Seeley Aguirre | *Gumby* (1985)
- 73 Michael Murtaugh | *Easy-Bake Oven* (1990)
- 76 Emmanuel Marcovitch | *Kitchen Clock* (1996)
- 80 Christine Alvarado | *My Little Pony* (1999)
- 82 Cameron Marlow | *Fly Rod* (1999)
- 84 James Patten | *Wood Stove* (1999)
- 88 Daniel Kornhauser | *Shirts* (2000)
- 92 Mara E. Vatz | *Vacuum Tubes* (2003)
- 96 Selby Cull | *Chocolate Meringue* (2006)

WHAT WE PLAY

- 102 Walter Novash | *Cords* (1982)
- 105 Jonah Benton | *Dice* (1990)
- 108 Erica Carmel | *Egg Basket* (1992)
- 111 Eric Choi | *Keys* (1992)
- 114 Janet Licini Connors | *Cardboard Boxes* (1992)
- 118 Gil Weinberg | *Music Box* (1997)
- 120 Kwan Hong Lee | *Marbles* (1999)
- 123 Robbin Chapman | *Jacks* (2000)
- 126 Douglas Kiang | *Pachinko Machine* (2000)

WHAT WE BUILD

- 132 Chuck Esserman | *Bikes* (1979)
- 134 Kwatsi Alibaruho | *Erector Set* (1990)
- 137 Austina (Vainius) De Bonte | *Straws* (1996)
- 142 Timothy Bickmore | *Lasers* (1998)

- 147 Justin Marble | *LEGO Particles* (1982)
- 150 Sandie Eltringham | *LEGO Metrics* (1990)
- 153 Alan Liu | *LEGO People* (1990)
- 156 Andrew Chu | *LEGO Laws* (1992)
- 159 Scott Brave | *LEGO Planning* (1996)
- 162 Dana Spiegel | *LEGO Replicas* (1996)
- 164 Joseph "Jofish" Kaye | *LEGO Categories* (1998)

WHAT WE SORT

- 168 Todd Strauss | *Wallpaper* (1982)
- 170 Britt Nesheim | *Toy Mailbox* (1989)
- 173 Joseph Calzaretta | *Stop Signs* (1992)
- 175 Brian Tivol | *Cards* (1996)

WHAT WE PROGRAM

- 180** Fred Martin | *BASIC Manual* (1989)
- 183** David (Duis) Story | *Apple II* (1990)
- 189** Ji Yoo | *Atari 2600* (1994)
- 193** Chris Dodge | *TRS-80* (1996)
- 199** Nelson Minar | *BASIC* (1996)
- 203** Steve Niemczyk | *Atari 800* (1996)
- 206** Rachel Elkin Lebowohl | *Apple II* (1998)
- 208** Anthony Townsend | *Modem* (1999)
- 212** Antoinne Machal-Cajigas | *TurboGrafx 16* (2007)

PART II

Mentors and Their Objects

What Made a Scientist?

- 220** Susan Hockfield | *What We See: Microscope*
- 228** Rosalind Picard | *What We Sense: Purple Haze*
- 236** Moshe Safdie | *What We Model: Steps*
- 242** Sarah Kuhn | *What We Play: Blocks*
- 248** Donald Norman | *What We Build: Radio*
- 252** Donald Ingber | *What We Sort: Venus Paradise
Coloring Set*
- 262** Alan Kay | *What We Program: Vacuums*
- 268** Seymour Papert | *Objects in Mind: Gears*

- 273** Sherry Turkle | *Epilogue: What Inspires?*

- 284** Notes
- 291** Bibliography and Suggested Readings
- 305** Illustration Credits
- 306** Index