

Contents

<i>Notes on the Figures</i>	viii
<i>Acknowledgments</i>	xx
<i>Chapter 1 Chaos and Order: The Genesis of Expressive and Representational Thought</i>	1
Introduction	1
Discussion	3
Meaningless Actions or the Beginnings of Representational Thought?	4
Dynamical Systems: Order within Chaos	6
<i>Chapter 2 The Four-dimensional Language of Infancy</i>	12
Where Do Representational and Expressive Values Come From?	12
Perception of Shape	14
The Beginnings of Action Representation?	14
The Infant Moves Through Different Levels of Visual Structure	15
Expressive Play Between Caregiver and Infant	16
Conclusion	17
<i>Chapter 3 Meaningful Marks: The Beginnings of Drawing</i>	19
First Marks	21
First Generation Structure	21
Second Generation Structure	25
Third Generation Structure	27
Does Drawing Development Require Early Mark-making Practice?	29
Conclusion	29
<i>Chapter 4 Actions and Shapes</i>	31
Shape Representation and Action Representation	31
Emergent Writing	32
The Structure of Objects and the Structure of Events	33
Movement as a Continuous Line and as Discrete Displacements in Time and Space	35
Children Distinguish Between the Structure of Events and the Structure of Objects	37
Investigation of Structure	39
Shape Is Action, Action Is Shape	41
Tadpoles and Conventional Figures	42
Shape Defined By Patches; Shape Defined By Line	43
Conclusion	47

Contents

Chapter 5 Chaos and Order: Dynamical Systems in the Art of Young Children

Patterns of Action: Dynamical Systems
Experiences Constructed on the Drawing Surface
Continuous and Discontinuous Displacements in Time and Space
Closed Shape
The Discovery of the Inside
Right-angular Attachment and Core and Radial
Electronic Paint
Conclusion

Chapter 6 The Structure of Events and Objects

Ascending and Descending Through a Vertical Axis
Rising and Falling Arcs
U-shape on Baseline
Around and Around, Up, Over and Down
The Discovery of the Invisible
Two Axes or Two Views of an Object?
Foreshortened Disks
Movements Through Time and Space: Higher and Lower Relations, Going-through,
Foreshortened Planes
Emergent Writing
Conclusion

Chapter 7 The View from Nowhere

Intellectual Realism and Visual Realism
Linda in Dungarees
Conclusion

Chapter 8 A Window on Consciousness

Reality Takes Shape: The World as a Construction Emerging on the Drawing Surface
The Deconstruction of Time
Structural and Denotational Variation
Different Types of Information
Conclusion

Chapter 9 Point of View: Visual Representation in Later Childhood

Movements in Space and Time: Depth and Distance
Interaction and Provision
Imaginary Views
Planes, Cubes, Cones, Hemispheres and Spheres
Spheres
Ellipses Disappearing and Reappearing
Conclusion

Chapter 10 The View from Room 26: Drawings of Adolescence

The View from Room 26
The Construction of the Viewer
Conclusion

<i>Chapter 11 Representation and Human Freedom</i>	155
Universality and Cultural Variation	156
How to Damage Your Child's Drawing Ability	158
Conclusion: The Ecology of Representation	163
<i>References</i>	164
<i>Index</i>	171