

# Put on Your Math Goggles: Seeing Mathematics in the Visual Arts (Grades 3-5)

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## **Books by Robin A. Ward**

*Math + Art = Fun: Activities for Discovering Mathematical Magic in Modern Art*  
*Numeracy and Literacy: Teaching K-8 Mathematics Using Children's Literature*  
*Literature-Based Activities for Integrating Mathematics with Other Content Areas (K-2)*  
*Literature-Based Activities for Integrating Mathematics with Other Content Areas (3-5)*  
*Literature-Based Activities for Integrating Mathematics with Other Content Areas (6-8)*

## **7 Elements of Art**

• Line     • Shape (2D)     • Form (3D)     • Space (perspective)     • Color     • Value     • Texture

## **Wassily Kandinsky**

*Composition VIII* (1923)  
*Several Circles* (1926)  
*Wassily Kandinsky (The Life and Work of...Series)* by Paul Flux  
*Wassily Kandinsky* by Ulrike Becks-Malorny

## **Paul Klee**

*New Harmony* (1936)  
*Farbtafel* (1930)  
*Paul Klee (Getting to Know the World's Greatest Artists Series)* by Mike Venezia  
*Paul Klee (Adventures in Art Series)* by Prestel Publishing

## **Wayne Thiebaud**

*Pies, Pies, Pies* (1961)  
*Jolly Cones* (2002)  
*Cakes* (1963)  
*Three Machines* (1963)  
*Seven Suckers* (1970)  
*What Is Round?* by Rebecca Dotlich  
*Counting with Wayne Thiebaud* by Susan Goldman Rubin  
*Delicious: The Life & Art of Wayne Thiebaud* by Susan Goldman Rubin  
*The Donut Chef* by Bob Staake  
*The Missing Piece* by Shel Silverstein  
*You Tube video: Wayne Thiebaud - CBS Sunday Morning:*  
[https://www.youtube.com/watch?v=vl\\_QJ5D9Qm8](https://www.youtube.com/watch?v=vl_QJ5D9Qm8)

## Alexander Calder

*Untitled* (1938)

*Boomerangs* (1941)

*The Crab* (1962)

*Totem* (n.d.)

Archimedes' *Law of Levers*:  $W_L \times D_L = W_R \times D_R$

*Alexander Calder (The Life and Work of...Series)* by Adam Schaefer

*Sandy's Circus (A Story about Alexander Calder)* by Tanya Lee Stone

*The Man Who Walked Between the Towers* by Mordicai Gerstein

## Jasper Johns

*Flag (Moratorium)* (1969)

*Map* (1961)

*Figure 8* (1959)

*Figure 7* (1969)

*Figure 9* (1969)

*0 Through 9* (1960)

*Figure 1* (1969)

*Numbers in Color* (1958-59)

*Big Numbers: And Pictures That Show Just How Big They Are!* by Edward Packard

*Little Numbers: And Pictures That Show Just How Little They Are!* by Edward Packard

*The Day Anthony Counted to a Googol* by Mark North

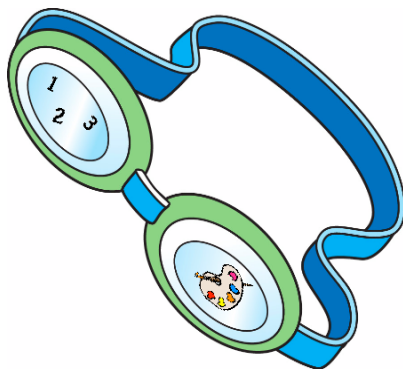
*Jasper Johns (Adventures in Art Series)* by Prestel

## Other Useful Resources

*Museum Shapes* and *Museum 1 2 3* by The Metropolitan Museum of Art

*I Spy...Books* by Lucy Micklethwait

*Math + Art = Fun: Activities for Discovering Mathematical Magic in Modern Art* by Robin Ward



**Keep your math goggles on!**