

Additional Resources

Non-fiction Books

- 13 Buildings Children Should Know* by Annette Roeder (Prestel, 2009)
- Bridges! Amazing Structures to Design, Build and Test* by Carol A. Johmann (Turtle Back Books, 1999)
- Bridges and Tunnels: Investigate Feats of Engineering with 25 Projects* by Donna Latham (Nomad Press, 2012)
- How a House Is Built* by Gail Gibbons (Holiday House, 1990)
- Look at That Building! A First Book of Structures* by Scot Ritchie (Kids Can Press, 2011)
- Rosie Revere's Big Project Book for Bold Engineers* by Andrea Beaty (Abrams, 2017)
- Sky Boys: How They Built the Empire State Building* by Deborah Hopkinson (Dragonfly, 2012)
- Skyscrapers! Super Structures to Design & Build* by Carol A. Johmann (WorthyKids/ideal, 2004)
- The Story of Buildings: From the Pyramids to the Sydney Opera House and Beyond* by Patrick Dillon (Candlewick, 2014)
- Twenty-One Elephants and Still Standing* by April Jones Prince (HMH Books for Young Readers, 2005)

Picture Books

- A House Is a House for Me* by Mary Ann Hoberman (Puffin, 2007)
- Iggy Peck, Architect* by Andrea Beaty (Abrams, 2010)
- Pop's Bridge* by Eve Bunting (HMH Books for Young Readers, 2006)
- Roberto: The Insect Architect* by Nina Laden (Chronicle Books, 2000)
- Rosie Revere, Engineer* by Andrea Beaty (Abrams, 2013)
- The Magnificent Tree* by Nick Bland (Scholastic, 2013)
- The Most Magnificent Thing* by Ashley Spires (Kids Can Press, 2014)
- The Three Little Pigs* (any version)
- The Three Little Pigs: An Architectural Tale* by Steven Guarnaccia (Abrams, 2010)
- Too Much Glue* by Jason Lefebvre (Flashlight, 2013)

Websites for Students

DPBS: Building Big

www.pbs.org/wgbh/buildingbig

- Shapes Lab: <http://www.pbs.org/wgbh/buildingbig/lab/shapes.html>
- Materials Lab: <http://www.pbs.org/wgbh/buildingbig/lab/materials.html>
- Loads Lab: <http://www.pbs.org/wgbh/buildingbig/lab/loads.html>
- Forces Lab: <http://www.pbs.org/wgbh/buildingbig/lab/forces.html>
- Glossary of Engineering Words: http://www.pbs.org/wgbh/buildingbig/glossary_head.html#P

PBS: Kids Design Squad

- Cardboard Playhouse: <http://pbskids.org/designsquad/video/cardboard-playhouse/>
- What Is Isometric Sketching?: <http://pbskids.org/designsquad/video/what-isometric-sketching/>

Wonderopolis (Search “materials” and “structures”)

www.wonderopolis.org

Websites for Teachers

Giant Ant Hill Excavated

<https://www.youtube.com/watch?v=1Fg21x2sj-M>

How It’s Made: Bricks

<https://www.youtube.com/watch?v=SbKvhHzn4hQ>

How It’s Made: Hardwood Plywood

<https://www.youtube.com/watch?v=LrCt5kJwcyw>

IdeaPark – Webs of Wonder (Search “structures”)

<https://www.exploreideapark.org/Resources.aspx>

Let’s Talk Science: Marshmallow Structure

<http://www.letstalkscience.ca/programs-resources/activities/item/how-tall-can-you-build-a-marshmallow-structure-that-will-support-weight.html>

Load-Bearing Test:

https://www.youtube.com/watch?v=cIHqbMBdn_E

Minecraft:

<https://minecraft.net/en/>

Shake Table:

<http://www.raftbayarea.org/ideas/Shake%20Table.pdf#>

Tacoma Narrows Bridge Collapse

https://www.youtube.com/watch?v=1XyG68_caV4