

# the strongest shape

Test out three different shapes and discover which is the strongest!

what you'll need



tape

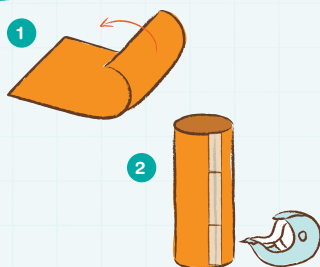


thick paper



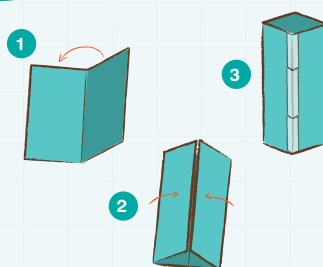
paperback books

## shape #1



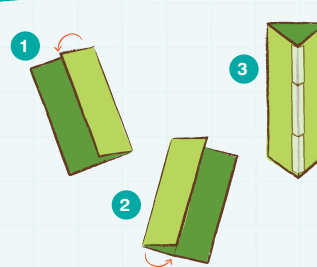
Roll a piece of paper into a tube. Tape the seam to secure.

## shape #2



Crease a sheet of paper in quarters. Tape the seam to secure.

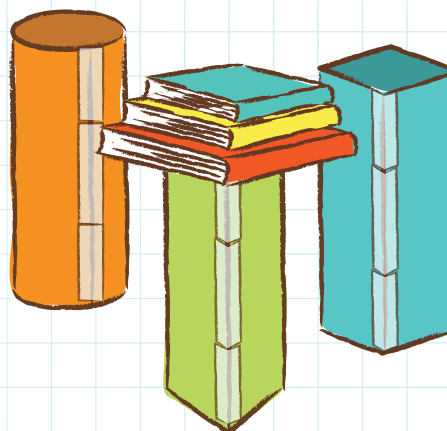
## shape #3



Crease a sheet of paper in thirds. Tape the seam to secure.

## start stacking!

When you're done making your shapes, pick one and start stacking books on top. Make sure the books are centered. Keep stacking your books until the shape can't hold any more and it topples over. Do the same thing for the other two shapes.



## ask & observe

- Which shape was the strongest? Which shape was the weakest? How many books did the strongest shape hold up? How many did the weakest hold?
- How do you think the shape of each piece effects how strong it is? Do shapes with angles work better than shapes with no angles?