

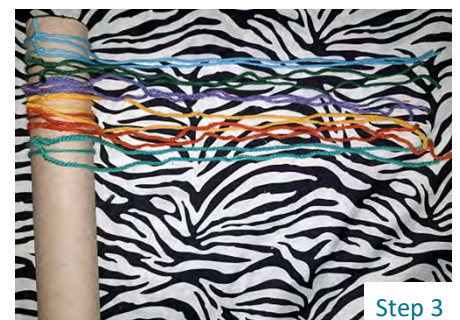
You will need:

- 2 Empty paper towel rolls
- Party streamers (any color)
- Yarn (any color)
- Glue
- Scissors



Directions:

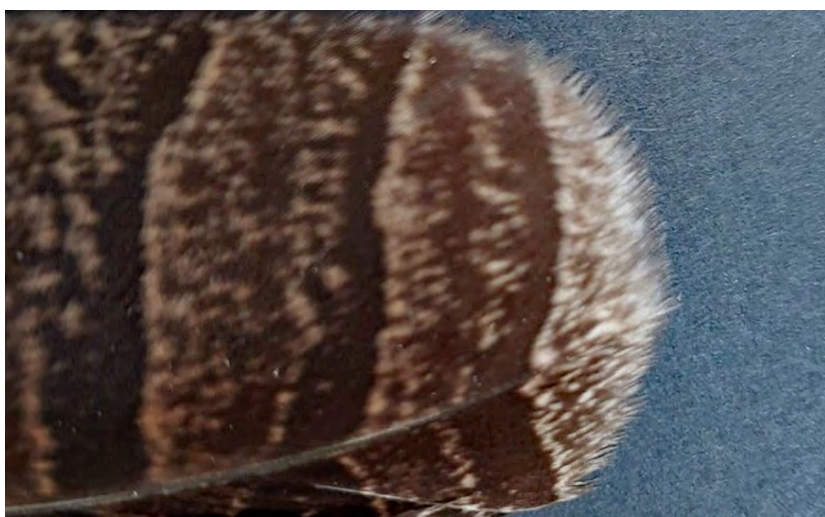
1. Glue your streamers to one side of one of the paper towel rolls. You can get creative by using as many colors, layers, and lengths as you want!
2. Cut each streamer down the center until you reach the paper towel roll and then set aside.
3. Tie your yarn around the other paper towel roll. Again, you can get creative by using as many colors, layers, and lengths as you want!



4. Once your glue has dried, hold the rolls on the empty end, and carefully wave each one around. Like the owl, which one had the silent flight? Why do you think it was the one you picked?



5. Compare the owl feather to the vulture feather. Now you can see why scientists who wanted to make quieter fans copied the design of owl feathers.



Look at the edge of the owl feather above. Look closely to see the “serrated edge” or how it is not smooth (it is fuzzy like the yarn.)

Now look at the edge of the vulture feather to the right. Notice how much smoother the edge looks (like the paper streamers).

