

A Classroom Demonstration for *The Life of a Leaf*

From www.press.uchicago.edu/sites/vogel/ Created by Steven Vogel svogel@duke.edu

A Wind Tunnel (Page 226):

Automobiles and molding don't match wind tunnels for convenience and versatility. One doesn't need (or want!) carefully smoothed flow, but the speeds available with household fans aren't quite adequate to get particularly good leaf reconfiguration. And leaf-blowers have too small a stream to do the job well. So one might contrive a small wind tunnel by making a large box fan blow into a channel that *gradually* decreases its cross-sectional area by about half, thereby doubling speed (or nearly so, depending on the fan's response). Cardboard and duct tape ought to do most of the construction job.