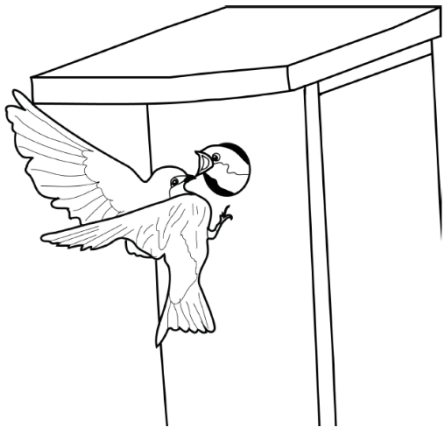
You're a behavioral scientist now! *Try out these **Bonus Activities** to practice observing behavior, measuring behavior in a reliable way, and posing hypotheses to explain variation in behavior.*

A. *Male and female tree swallows both care for their offspring, and measuring the parents' or chicks' behavior requires a new ethogram.*



Watch this video and answer more questions about parental care.

https://youtu.be/guhI9C3aY-c

a. What sort of behaviors do chicks perform? How would you measure them consistently with an ethogram – using a count (per minute), a duration, or a measure of intensity?

b. What kinds of parenting behaviors can you see? Provisioning (feeding) is an obvious one, but what about the bird equivalents of changing a diaper, cleaning house, or cuddling?

c. Why does the mother sit on their young? Notice how the mom in Nest 2 did this a lot. Why do you think that is? *Hint: turn your sound on and think about the weather outside.*

B. Observe behaviors of animals around you – a pet, squirrel, bird, and so on – and design an ethogram of their behavior.