

### Birds and Bernoulli

#### What Did You Learn?

1. What is Bernoulli's Principle?
2. Explain how adjustments made to the wings of the Flying Eagle Airplanes affected the speed and gliding time.
3. Draw what you think a side view of a bird's wing looks like, and use arrows to show how air pressure and flow of air affect each other.
4. Does a wing that produces greater lift have more or less drag than a wing that produces less lift?

#### Wanted: Your Feedback

1. How effective was the How an Airfoil Works diagram? Was this effective in helping participants understand Bernoulli's Principle?

2. What would you change about this activity?

3. What new information did participants learn?

#### Question for Reflection

1. The size and shape of different birds' wings vary greatly. In addition to flight, for what specialized purposes do birds use their wings?
2. Compare a hawk and a hummingbird. How do the shapes of their wings vary according to the purposes they serve?
3. Do you think insects and flying mammals have wing designs similar to birds'?

