

How Living Things Fly

- Characteristics of flying birds
 - Wings to produce lift
 - Powerful flight muscles to generate forward motion
 - Aerodynamic body reduces drag
 - Very light bones with air sacs reduces weight
- Gliding and Parachuting
- Other flying animals



Preview File

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Characteristics and Adaptations for Living Things to Fly - Birds

- Birds must deal with the aerodynamic forces which affect planes, helicopters, etc. These are Lift, Weight, Thrust and Drag.
- They do this by have a specific set of bodily characteristics
 1. Wings to produce lift
 2. Powerful flight muscles to generate forward motion

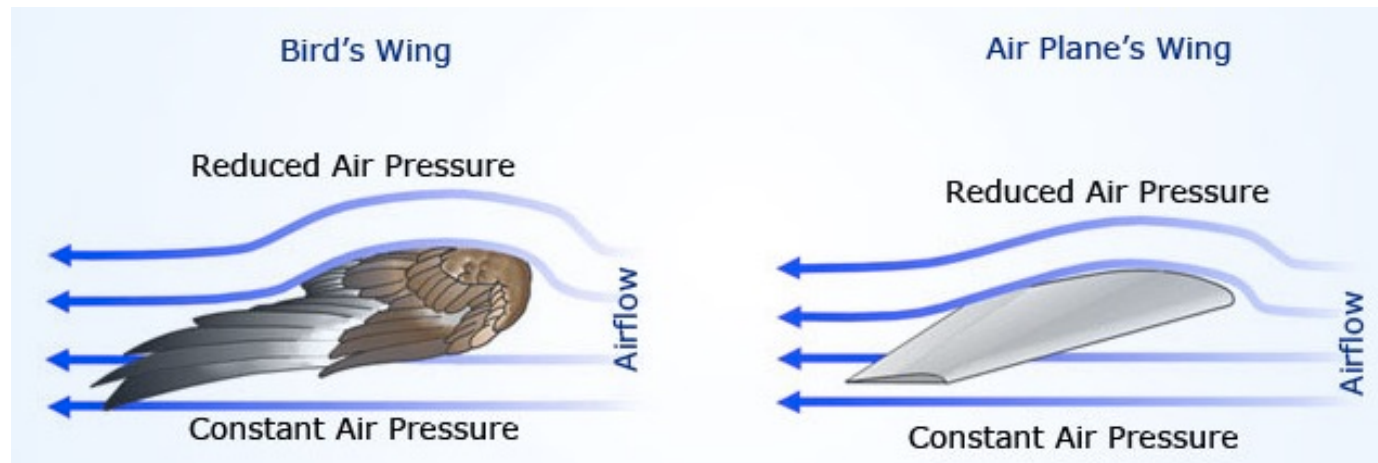
1. _____

2. _____

Wings to produce lift

- Birds and airplanes produce lift the same way
- The shape of the wing causes air to move faster above it and slower below

- _____



Powerful flight muscles to generate thrust

- _____



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- To accomplish this, a bird must twist its wings to create the right angle
- Birds accomplish this with very strong flying muscles



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Very light bones with air sacs reduces weight

- For anything to fly, lift must be greater than weight
- _____



Gliding and Parachuting

- There are two ways humans can fall and land safely from heights. They can

1. use a parachute



2. use a wingsuit



Both work to slow the person's fall.

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Wingsuit

- _____
- They allow you to glide from one place to another while falling at a reduced speed
- Most people



How do other animals fly?

- Most other animals take advantage of bodily adaptations to glide from one place to another
- These adaptations usually involve a membrane or skin
.....
- This skin acts like a parachute or wingsuit
- _____



Flying Fish



Flying Lemurs



Flying Squirrel

Activity

Task:

- Your task is to create a

Rules:

- You may only use the materials provided
- Your