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birds use their strong breast muscles to flap their wings and give them the thrust to move through the air and fly in a way birds use a swimming motion to get the lift needed to fly plane wings have a similar shape as bird wings but instead of flapping their wings we use engines to thrust them into the air and create the lift needed to fly bird flight is the primary mode of locomotion used by most bird species in which birds take off and fly flight assists birds with feeding breeding avoiding predators and migrating bird flight includes multiple types of motion including hovering taking off and landing involving many complex movements university of oxford 303k subscribers subscribed 345 31k views 2 years ago flight is perhaps the most complex form of movement in the animal kingdom researchers lydia france and graham birds fly by flapping their wings steering mainly with their tails compared to the parts of an airplane a bird's wing acts as both wing and propeller the basal part of the wing supplies most of the supporting surface the wing tip most of the propelling force four physical forces are necessary for effective bird flight lift drag weight and thrust the relevance of each force can be understood as follows lift as a bird flaps its wings air moves faster over the upper surface of its wings and body this reduces the surrounding air pressure and lifts the bird higher into the sky paleontologists estimate that bird relatives flew for the first time between the middle and late parts of the jurassic period about 160 million years ago these aerialists were proto birds how birds fly youtube askabiologist 5 6k subscribers 46k views 7 years ago more bird flight is one of the most remarkable phenomena in the animal kingdom these animations show birds have many physical features besides wings that work together to enable them to fly they need lightweight streamlined rigid structures for flight the four forces of flight weight lift drag and thrust affect the flight of birds when birds take to the air what actually lets them leave the ground and fly the secret to birds flight starts with the shape of their wings they're curved in a way that causes air to flow more slowly under the wing than above it that creates an area of low pressure just above the wing that pulls the bird up into the sky a force q how do birds fly a birds use the same four forces of flight as airplanes to fly when birds are not flapping their wings you could compare them to airplanes their wings are shaped like an airfoil this shape creates lower air pressure on the top of the wing pushing them up just like how lift works on a plane for a century scientists pondered whether bird flight evolved by animals gliding down from trees or by creatures running and flapping from the ground up a landmark 1974 paper reset the debate as a bird takes off and soars through the sky it utilizes various forces of flight to stay aloft understanding these forces is key to understanding how do birds fly in this section we will explore the physics of bird flight including lift and thrust drag and weight and air pressure and flight mechanics matt angelo updated on august 16 2023 featured how do birds fly table of contents how do birds fly the basics of bird flight how wings contribute to bird flight the role of feathers in bird flight energy and diet how they affect bird flight human impact threats to bird flight conclusion understanding bird flight helpful resources 1 basic principles figure 1 forces involved in flight source author's diagram the mechanics of bird flight is part of fluid dynamics a branch of physics that deals with airflow processes and their effects on solid elements suspended in the air see archimedes thrust and lift drag suffered by moving bodies wildlife world 376k subscribers subscribed 7 6k 1 1m views 5 years ago birds flying in slow motion part 1 3 part 2 birds in flight 2 part 3 birds in flight 3 mu may 16 2022 rachel fritts each spring and fall north american skies fill with billions of birds in one of nature's most spectacular shows avian migration the sheer number of travelers is staggering but there is an order to the chaos birds navigate along more or less regular routes when they migrate when bird species reach the size of a small raptor they start to rely on other types of flight soaring and gliding through soaring birds gain altitude and travel quickly by taking energy from wind currents in the atmosphere fly the bird as far as you can without hitting a pipe make sure to check the for additional information and updates site and html5 game created by play flappy bird for free online in html5 and as scientists recently discovered great frigatebirds can sleep in 10 second bursts while remaining airborne for up to two months but when it comes to uninterrupted flight the alpine swift has held the record for the longest single flight of any avian species at 200 days they fly night and day at speeds between 29 and 50 miles per hour not stopping to eat drink or rest they pause for a couple of weeks to refuel in wetlands in the central united states usually

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