

## Hummingbirds Could Not Have Evolved

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The hummingbird isn't like any other kind of bird on earth, so how could it have evolved? Here are some unusual facts about these creatures.

- Hummingbirds are the tiniest birds in the world.
- Hummingbirds do not flap their wings, but have a unique swivel joint so that their wings rotate in a figure-eight pattern.
- A hummingbird wings beat about 70 times per second.
- Hummingbird's wings beat up to 200 times per second when diving.
- Hummingbirds are the only birds that can fly both forward and backwards.
- Hummingbirds can also hover in mid-air, fly sideways and even upside-down.
- A hummingbird's heart beats up to 1,260 times per minute.
- Hummingbirds hover in front of the flower and reach for the nectar using its long, slender beak. It could not reach its food without a suitable beak.
- Hummingbirds have tiny hairs on the tip of the tongue to help lap up nectar. Tiny, curved structures along the tongue's tip open to hold nectar, then curl up tightly after the bird swallows.
- When a hummingbird finishes with one flower, it flies backward to move away.
- A hummingbird will take about 250 breaths per minute while at rest.
- Some hummingbirds will fly over 2,000 miles twice a year during migration times.



How could evolution transform any other bird into a hummingbird?

How did the **hinge joint evolve**?

How did the wings change from flapping to the **figure-eight rotation**?

How did the wing-speed increase to 70 times **per second**?

How did the heartbeat increase to 1,260 times per minute (21 times **per second**)?

It's easier to believe that these amazing birds were created by an Intelligent Designer than to believe they somehow evolved.

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