Student #4

I was on the IST soccer field on October 16 around 3:00 p.m. It was a grassy field and the surroundings smelled of fresh pollen. There were a couple of dragonflies and the sound of birds chirping could be heard in the distance. The weather was nice and cool with a light breeze.

I observed dragonfly's flying in random patterns, trees of various kinds, and a butterfly in the distance. I smelled fresh grass and pollen.

It was extremely interesting to see how dragonflies move in such uncoordinated patterns. I wonder whether this has a purpose or if it's just random. This connects to what I've already learned is that animals evolve to have useful traits but this just seems random.

It makes me wonder if this is coordinated or just random. I could find out more by observing the patterns of flying animals, and look up this question on the web. I also wonder if other flying animals like birds or butterflies do this.

The dragonflies have freedom to rotate their wings allowing them to change the aerodynamic forces acting on their wings, further allowing them to make very sharp turns. Dragonflies can also move each of their wings separately, further enhancing their aerial abilities. Another cool thing about dragonflies is that they are able to fly in any direction. One more fun fact is that dragonflies have 360 degree vision. (*science daily the secret of dragonflies flight*) nov 24 2014.

This may affect the dragonfly, making it easier for them to hunt because they can sneak up on their prey from any direction, and their fast flight speed makes it even easier. Dragonflies 360-degree vision allows them to spot predators trying to sneak up on it and allows them to see prey easier.

(8 things you never knew about dragonflies from tree hugger).may 31 2024

The site above shows a study testing dragonflies hunting patterns. They found that the dragonflies travel nearly 1 meter per second faster than the prey no matter how fast. Dragonflies can also make complete 180s quickly and have the ability to flap their wings in whatever direction they want.

(how dragonflies catch prey midair from ucdavis) jan 04 2023 (the secret of dragonflies flight from phys.org) nov 25 2014 I think it could be related to the weather or climate. I went to the nasa data globe visualizer and i would see which parts of the world are populated with dragonflies and see if they had any similarities. I would also observe the species and if they fly differently depending on where they were. I would research the migration and populations of the dragonflies and compare them to the temperatures, winds and others then I would compare the winds to see if the dragonflies were following certain temperatures, winds etc.