

Name _____



Forces and Motion in Nature

Newton's laws of motion also apply in the natural world, affecting the behavior of animals and objects in their environments. Let's explore some examples from nature.

Example: Think about a squirrel leaping from one tree branch to another. When the squirrel pushes off the first branch, it applies a force that propels it to the second branch. This is similar to Newton's Third Law in action.

Real-world application: Birds soaring in the sky use air currents and wing flapping to control their flight, taking advantage of the forces of lift and drag, which follow Newton's laws.

Questions

1. How do Newton's laws of motion apply in the natural world?
2. Describe how a squirrel's leap between tree branches relates to Newton's laws.
3. What forces do birds use to control their flight, and how do they apply them?
4. Can you think of another example from nature where forces and motion are interconnected?