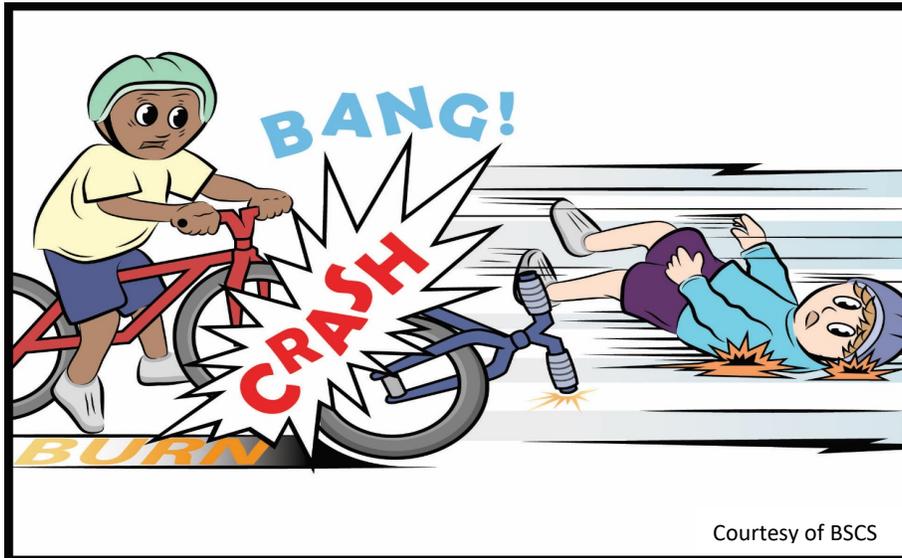


Mumford and Leroy's Big Crash, Part 2



Mumford was traveling pretty fast by the time his bike hit Leroy's bike. Mumford had a LOT of motion energy as he sped down that hill! When the two boys and their bikes collided, Mumford and his bike slowed very quickly and came to a stop. Leroy had been sitting still at the bottom of the hill. So when Mumford crashed into him at full speed, Leroy flew off his bike and skidded across the sidewalk five feet or more. Spots came running down the hill after Mumford. He heard a loud crash and saw sparks flying where the metal bike hit the concrete sidewalk. Spots was being an energy detective!

Leroy and Mumford were pretty lucky that neither of them was hurt when their bicycles collided. As Mumford rode down the hill, he moved faster and faster. The faster an object moves, the more energy it has. But what happened to that energy when Mumford hit Leroy? Mumford slowed down and stopped. Does that mean his energy disappeared when he collided with Leroy?

Not at all! Mumford's energy moved or transferred somewhere else. This happens when objects collide. Where did Mumford's energy go? The fact that Leroy skidded across the sidewalk is evidence that some of Mumford's energy moved or transferred to Leroy. Leroy had been still, but when Mumford crashed into him, he started moving. Energy from one object (Mumford) transferred to another object (Leroy).