



The Lever Heroes: Lebo and Siphó's Big Discovery

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Lebo and Siphon were walking home from school when they found a huge rock blocking the pathway. Lebo smiled, remembering their science lesson, while Siphon wondered how they could ever move such a heavy object.



Lebo knelt down and drew a simple diagram in the soft sand with a twig to explain the secret of the lever. He showed Siphon that they needed a pivot point called a fulcrum, a heavy load to move, and the effort of their own strength.



Lebo found a sturdy wooden branch and placed it over a small, sharp rock to create a first-class lever. As he pushed down with all his might on one end, the giant boulder on the other side slowly began to rise.



A long, straight wooden bar is balanced perfectly on a small triangular stone placed right in the middle. A heavy round stone sits on the left side of the bar, while a glowing energy pulse on the right side indicates where the force is applied.



Later that day, Siphon helped his mother by pushing a wheelbarrow filled to the brim with heavy, colorful vegetables. Lebo pointed out that the wheelbarrow is a second-class lever because the heavy load rests in the middle of the frame.



An illustration shows a long beam with a wheel acting as a pivot point at the very front end. A large, heavy crate sits in the middle of the beam, and an upward lifting force is shown at the handles on the opposite end.



At the local park, Lebo used a pair of long metal tongs to carefully pick up pieces of litter from the grass. He explained to Siphiso that tongs are third-class levers where the effort is applied in the middle to give them more precision.



This illustration shows a tool with a hinge at one end acting as the pivot point and a small object being held at the very tip. The squeezing force is applied directly to the center of the tool's handles to show how the mechanism works.



The two friends sat together on a park bench, looking at all the tools around them like fishing rods and nutcrackers. Lebo explained that every lever has a special job, whether it is making a load feel lighter or giving someone more control over a task.



Sipho and Lebo stood proudly on the now-clear path, feeling like true heroes of science. They realized that levers are everywhere in their daily lives, helping them solve problems and move the world one pivot at a time.