

Max's Magnificent Mechanisms: Mastering Movement

Get Moving! Discover how Max the Monkey turns simple parts into amazing machines.

- A mechanism is a system of parts working together to change an input motion into a different output motion.
- A pivot is the fixed point around which a lever or linkage rotates, acting as the 'hinge' of your design.
- Levers use a fulcrum to balance and multiply the force applied, making it easier to lift or move an object.
- Linkages connect two or more parts together, allowing movement in one area to be transferred to another part of the machine.
- When you push or pull on a lever, you are applying an input force that creates a predictable output movement.

Did you know? Did you know? The ancient Greek mathematician Archimedes famously said, 'Give me a place to stand, and a lever long enough, and I will move the world!' A lever is one of the simplest machines, yet it is powerful enough to lift heavy objects with just a small amount of effort.

Key vocabulary: Mechanism · Pivot · Lever · Linkage · Fulcrum · Input · Output · Force