

Max's Magnificent Machines: Levers and Pulleys

Master the Mechanics: Make Work Easier with Max!

- A lever works by using a pivot point called a fulcrum. The object you are trying to lift is called the load, and the force you push down with is the effort.
- You can change how easy it is to lift a load by moving the fulcrum closer to or further away from the object.
- A pulley is a wheel with a groove for a rope. It helps you lift heavy things by changing the direction of your pulling force.
- If you use more pulleys in a system, it often makes the load feel lighter to pull, which is a brilliant way to save energy!
- Max the monkey always checks his maths: a longer lever arm usually means you need less effort to move the same load.

Did you know? Did you know? Ancient builders used simple pulleys and long wooden levers to move massive stone blocks that would be impossible to lift by hand! By using these clever machines, they could move heavy items using only a fraction of the force.

Key vocabulary: Lever · Fulcrum · Load · Effort · Pulley · Mechanism · Pivot