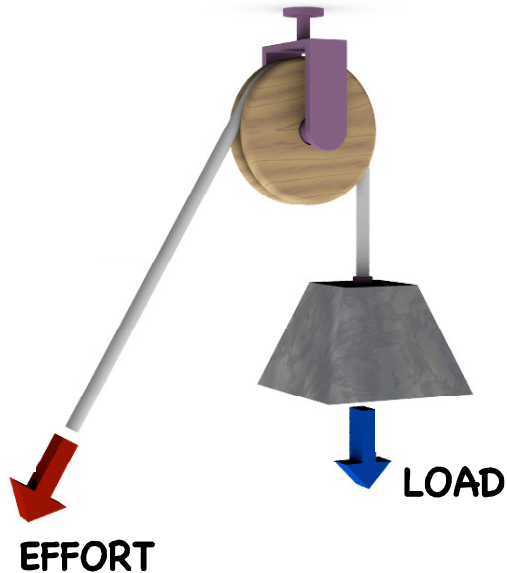


Simple Machine #2: PULLEYS

Pulleys are simple machines that allow us to lift heavier loads by increasing the distance required to lift the load (just like levers!)



Building Tips:

- Connector pegs and beams
- Sturdy axle connection with beams on plate
- Pulley suspension with beams

Task: Design and build a lego structure that uses a pulley and wound string to lift a weight.

Requirements:

1. A solid base – it should have a place for the string to wind up and a place for the lever to attach.
2. A wind-up string on axle to base
3. A lever with pulley attached so that the pulley can rotate on the end
4. A container for the weight

Procedure:

1. Brainstorm – think about the problem and real life solutions.
2. Draw a model of your design on the back of this sheet. Be sure to include all the required components. Label the components.
3. Build your design.
4. Test it, and redesign.

Draw your design here. Label the important components.

