

Lab sheet: Lever

Materials needed	<ul style="list-style-type: none">• Ruler• Toilet paper roll• Plastic cup or empty fruit cup• Scissors• Variety of weights (rocks, building blocks)• Tape or glue
Hypothesis What do you think will happen when you exert effort on the end of the lever opposite the load?	

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Procedure

1. Glue or tape the plastic cup to one end of the ruler with the opening facing upward.
2. Using the scissors, cut a slit on one side of the toilet paper roll. Then create a matching slit on the opposite side so that you can slide the toilet paper roll over the ruler until it is in the middle of the ruler. The toilet paper roll will act as the fulcrum. Make sure that the ruler can slide easily through the roll.
3. Position the paper roll in the middle so that the ruler is balanced.
4. Place a weight (load) in the cup at one end of the ruler and note what happens to each end of the lever.
5. Move the fulcrum (paper roll) closer to the end with the load. Note what happens.
6. Place a lighter weight or object on the other end of the lever. If nothing happens, then adjust the position of the fulcrum until the heavy load is raised up.

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Observations *Remember observations can be recorded with pictures, numbers and/or words!	
Conclusions	
Questions	<p>When engineering a model, did I...</p> <ul style="list-style-type: none">• Think about new parts, materials, equipment, or time that I need to make my design better• Make final changes to my prototype• Make sure the design can be made well