

Mousetrap Car Assembly Instructions

Safety

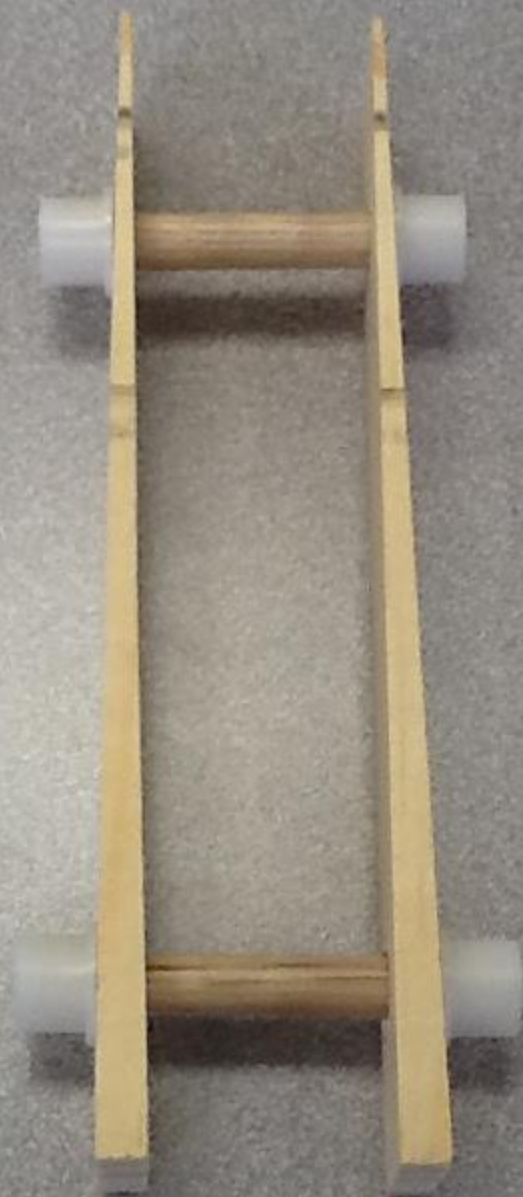
- Students are required to wear Safety Goggles during the construction portion of the Mousetrap Car Lab
- No Exceptions

Collect Car Frame Materials

- 4 plastic Washers
- 2 Wooden Doll Rods for Axles
- 2 Pre-drilled wooden shims



Assemble Car Frame as Shown



Glue Washers

- Use the glue guns to attach the washers to the

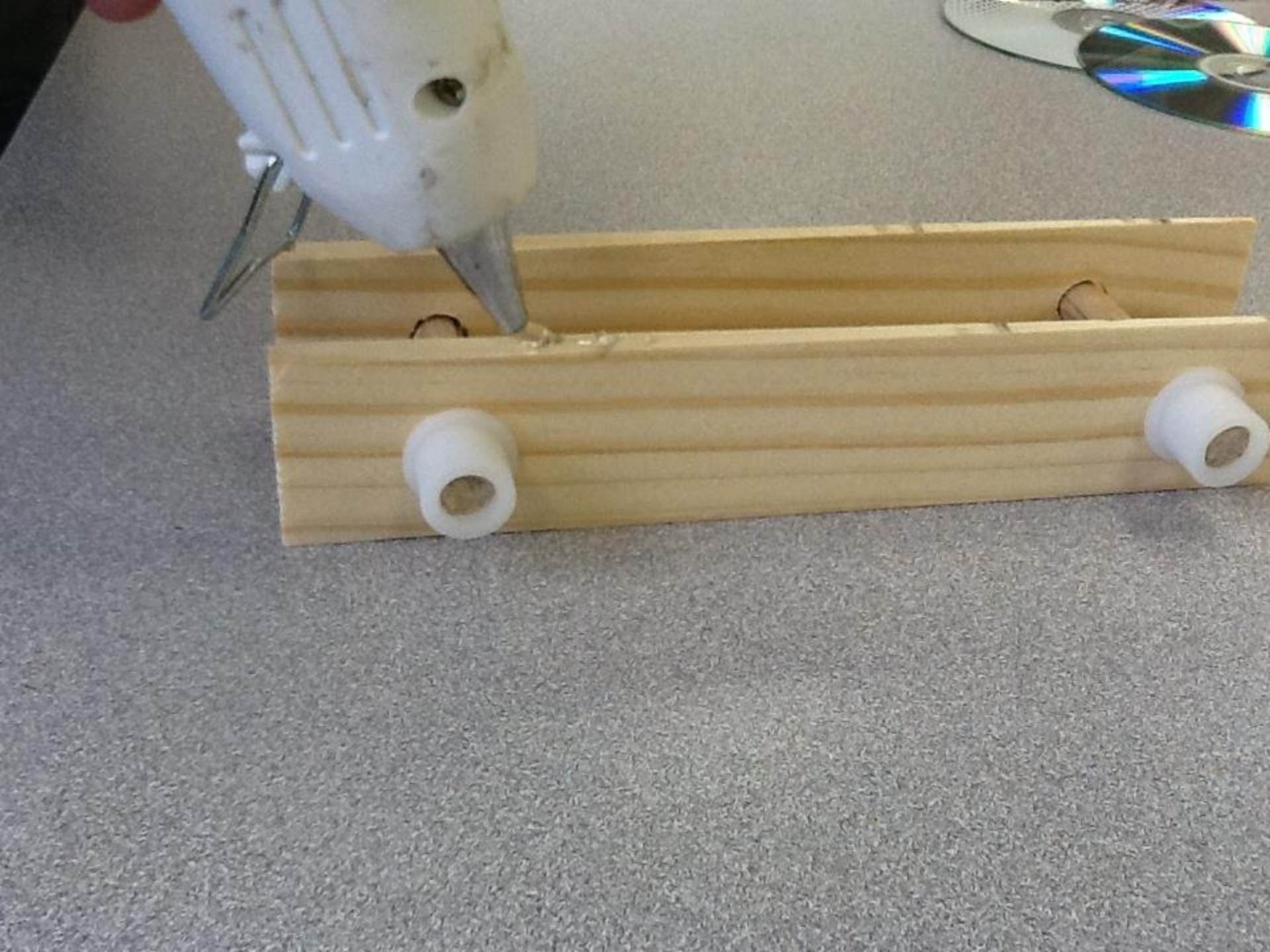




Attaching the MouseTrap

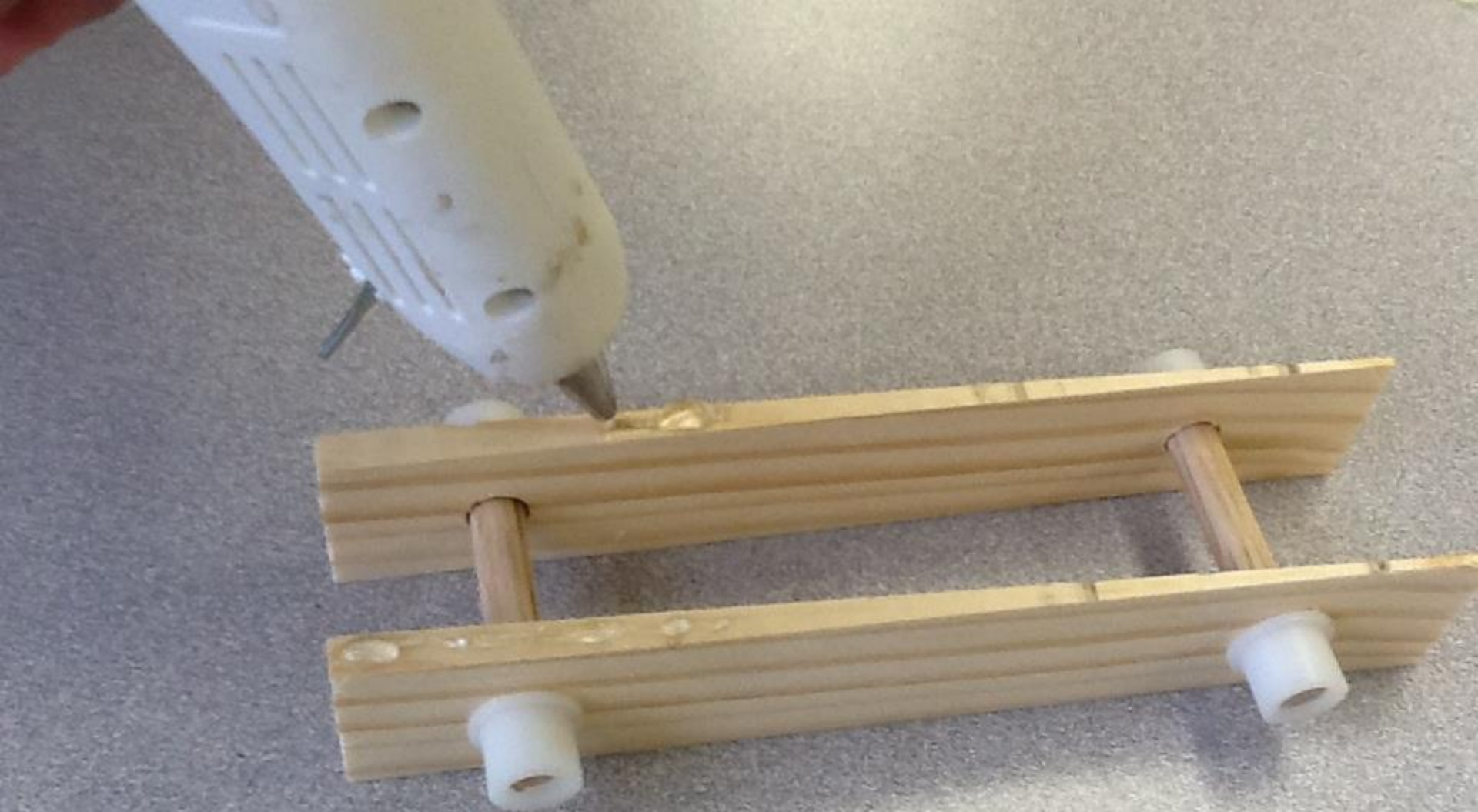
- Use a glue gun to run 2 beads of glue along the top of the wood shims
- Apply glue to approximately half the length of the wood shim

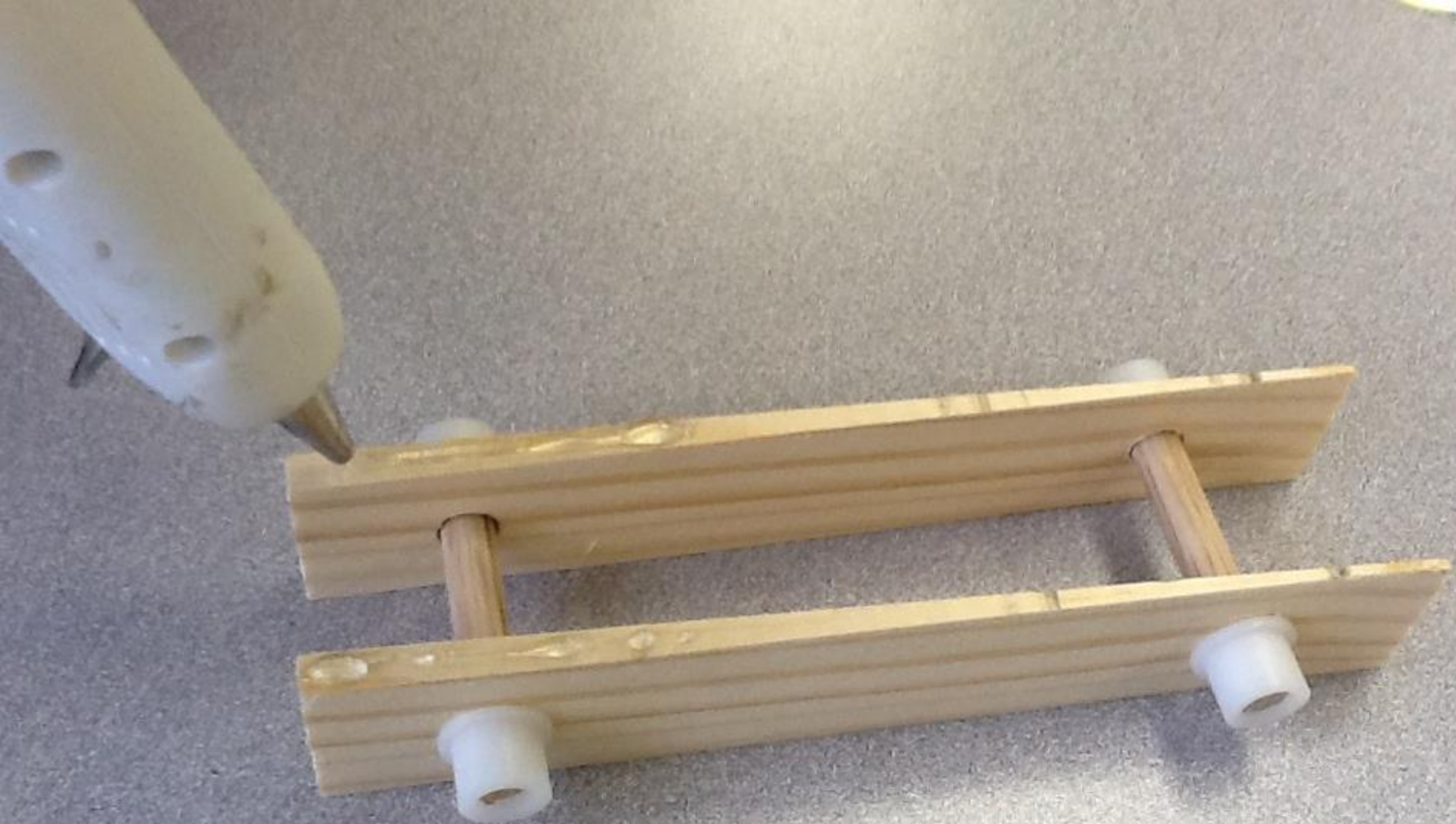






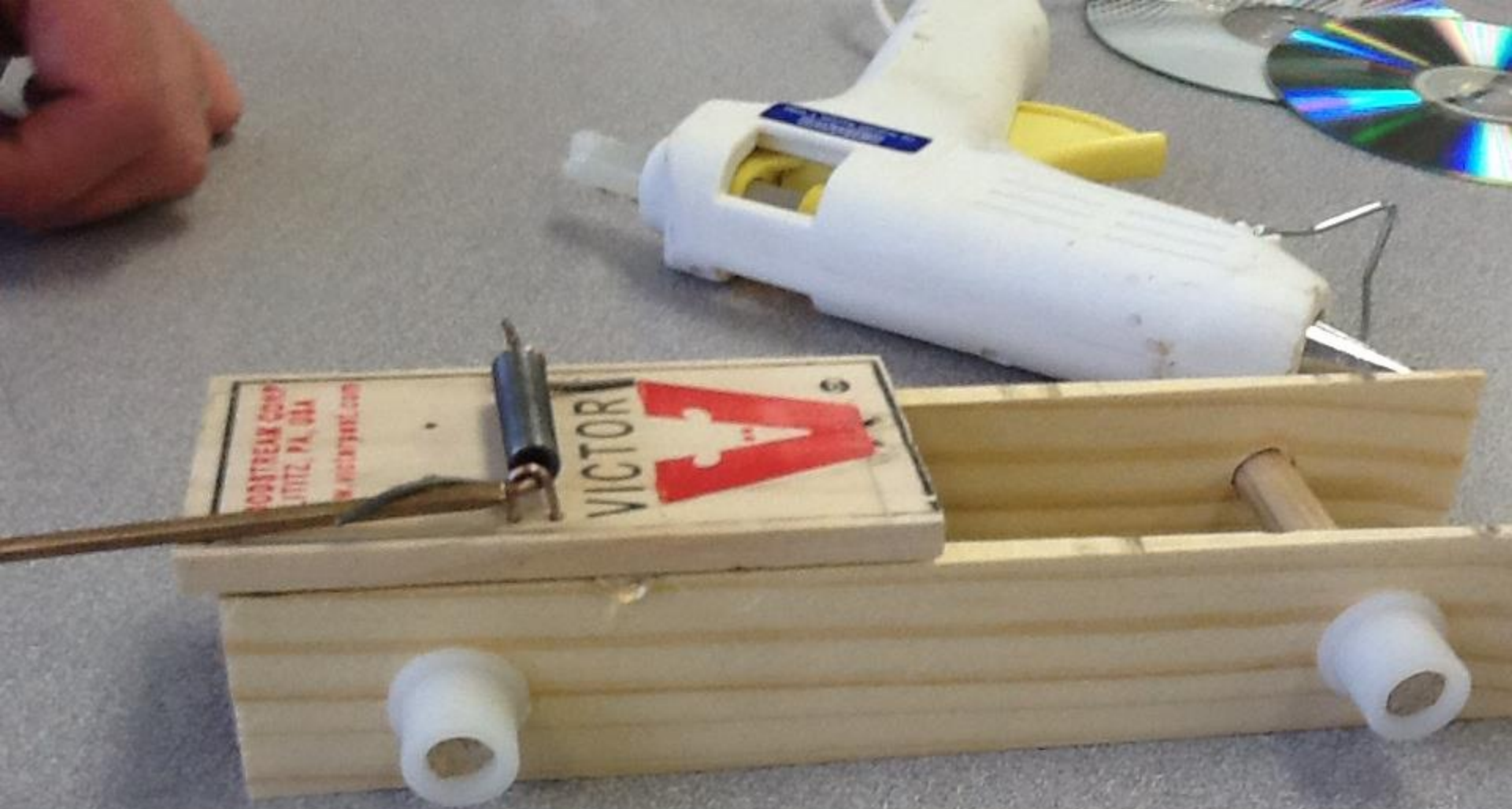


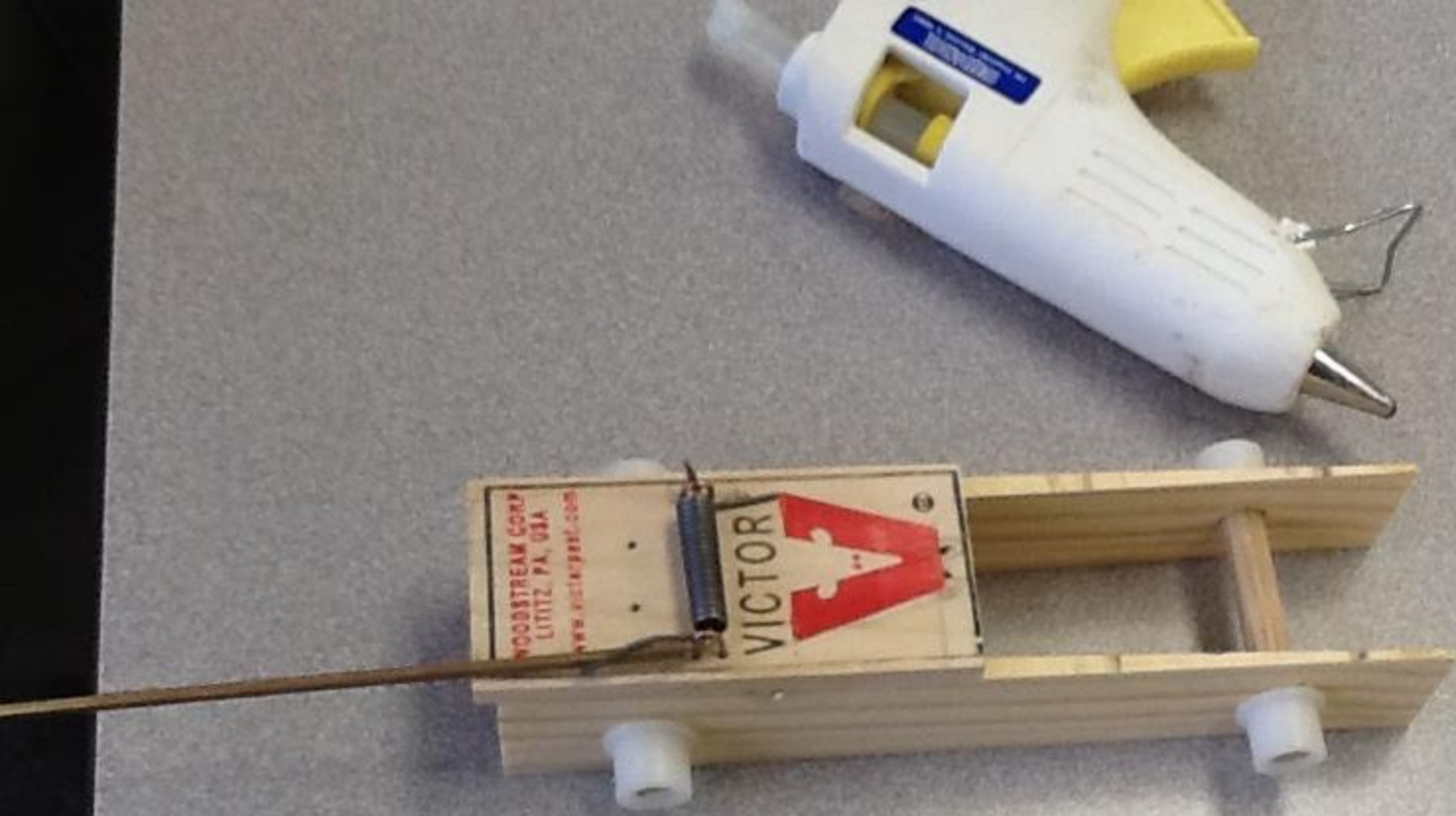


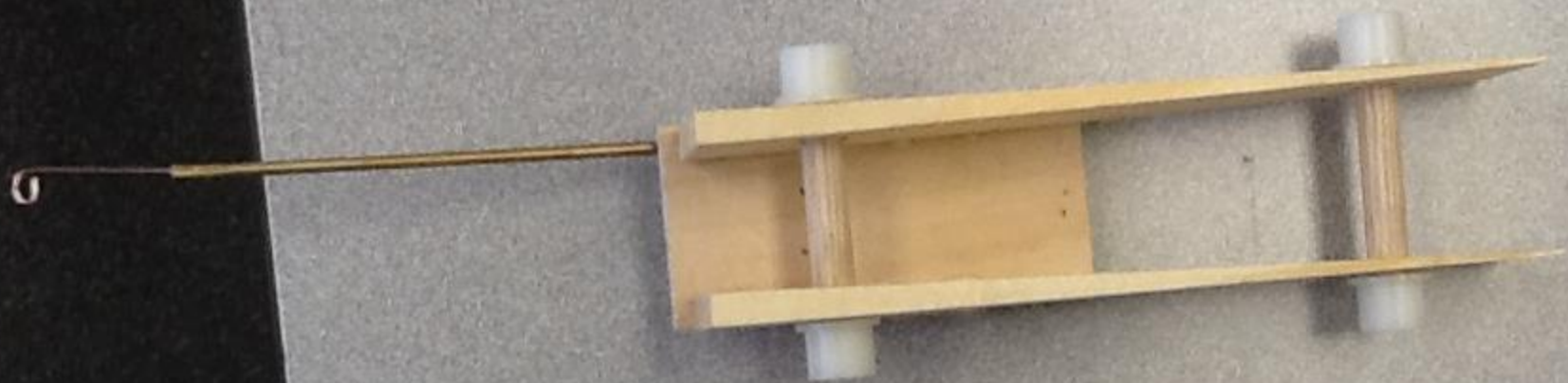


Placing the Mousetrap

- Place the mousetrap on the frame with the “V” of the mousetrap facing towards the front of the car (narrow part of the wood shims)
- Do your best to make sure the frame of the car is the not rubbing against the washers and the wood shims are parallel and straight.

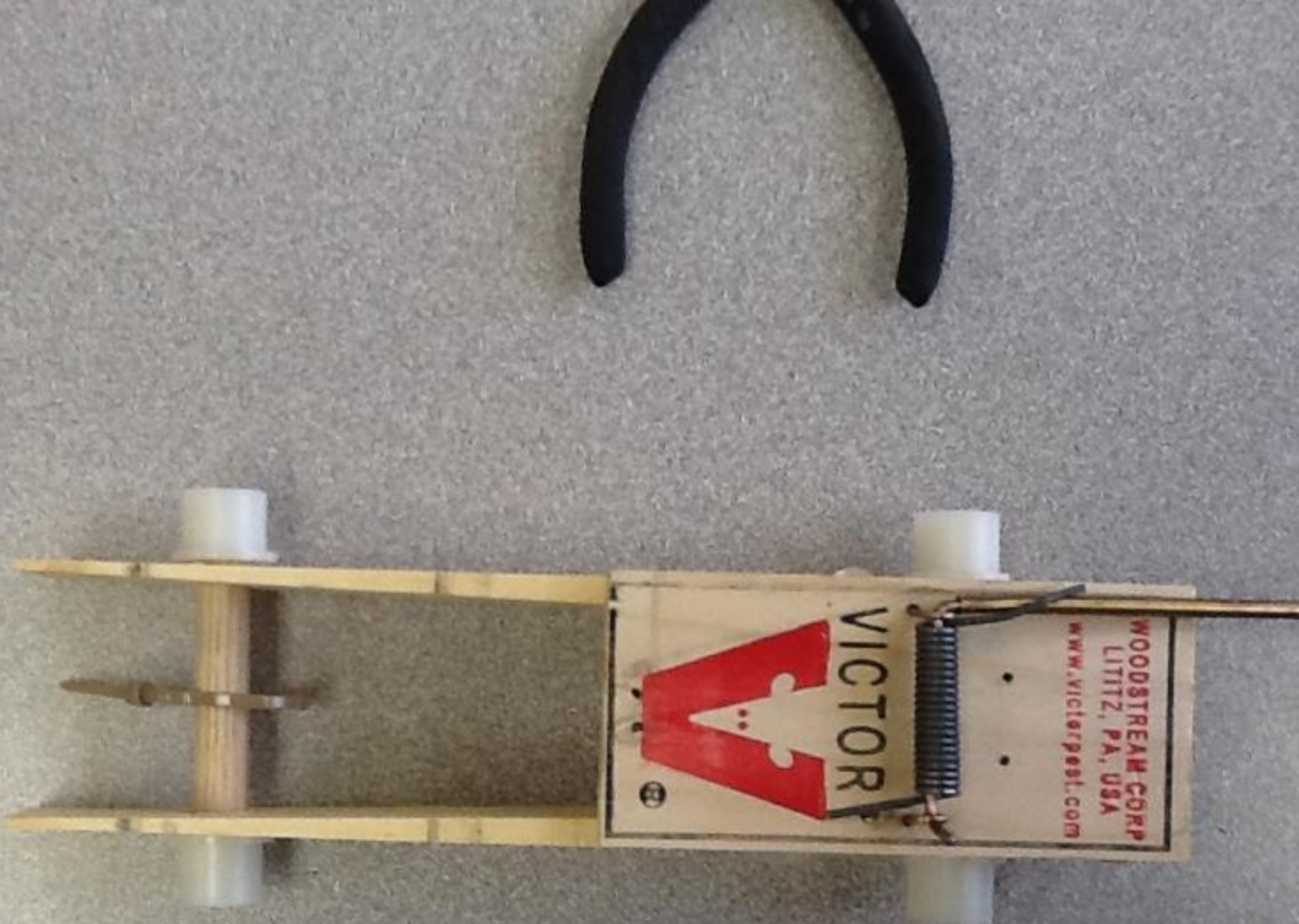






Drive Axle

- Tightly attach a small zip tie to the drive axle of your Mousetrap Car.
- Trim the end of the zip tie so only a small portion is left on the end.





Wheel Installation

- Install the CD's on to the plastic washers.
- You may use tape, rubberbands, or glue to make sure your wheels stay attached.







Lever Installation

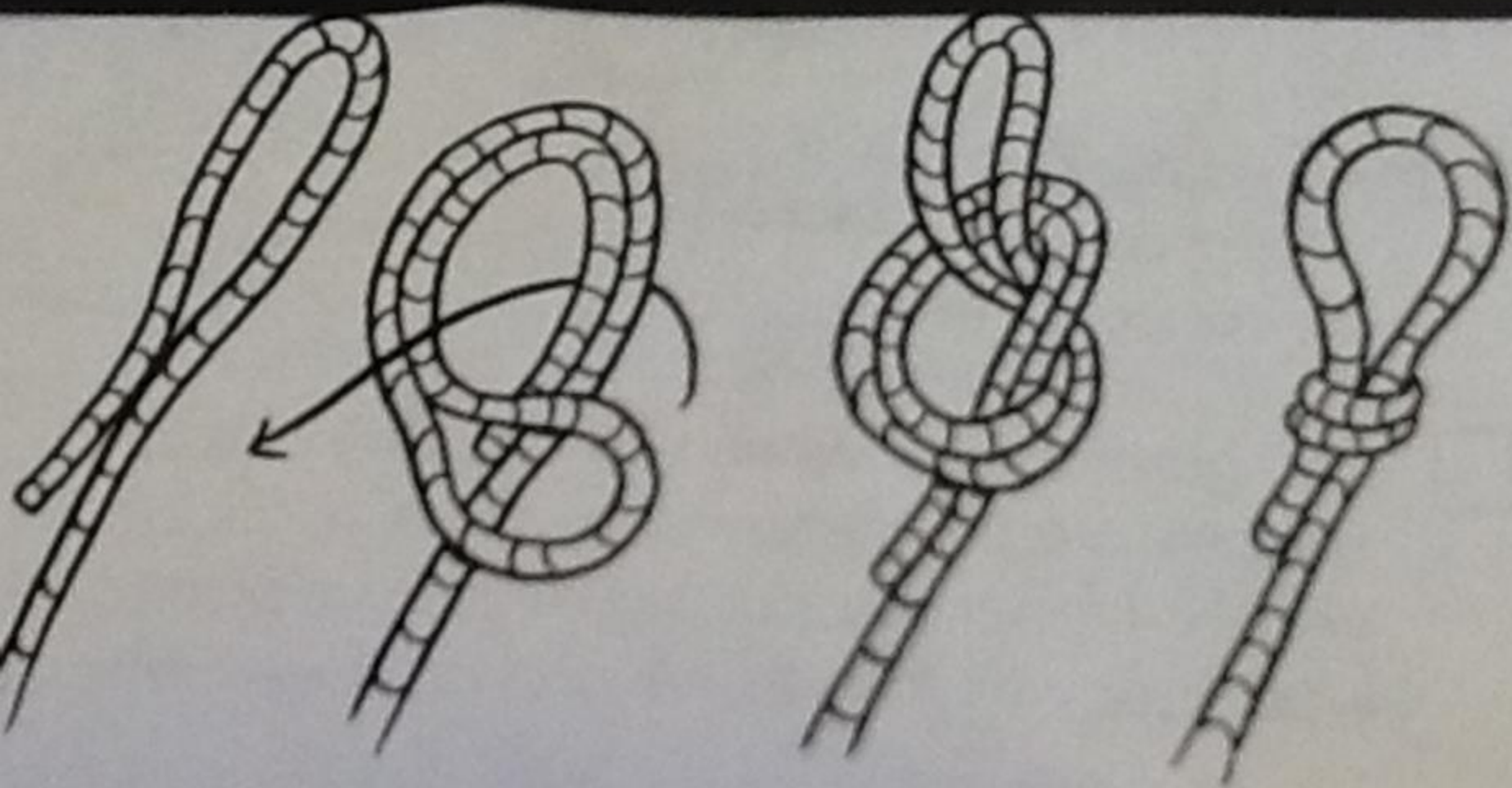
- Collect a metal rod and hook for the lever
- Insert the hook into one end of the lever and the lever onto the mousetrap





String

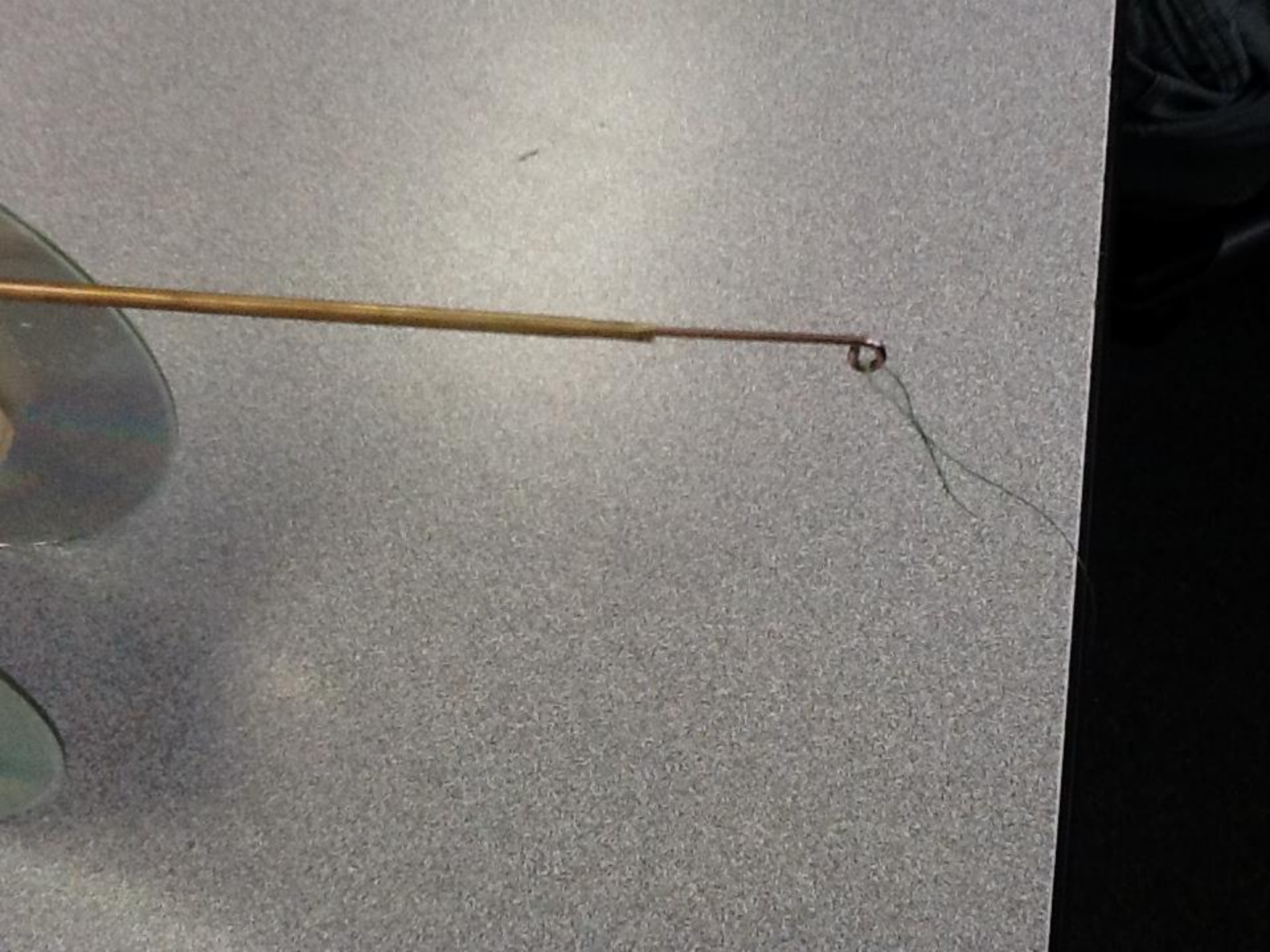
- Gather a length of string that slightly longer the distance between the hook and the zip tie when your car is at rest
- Tie a loop at each end of the string per the picture below

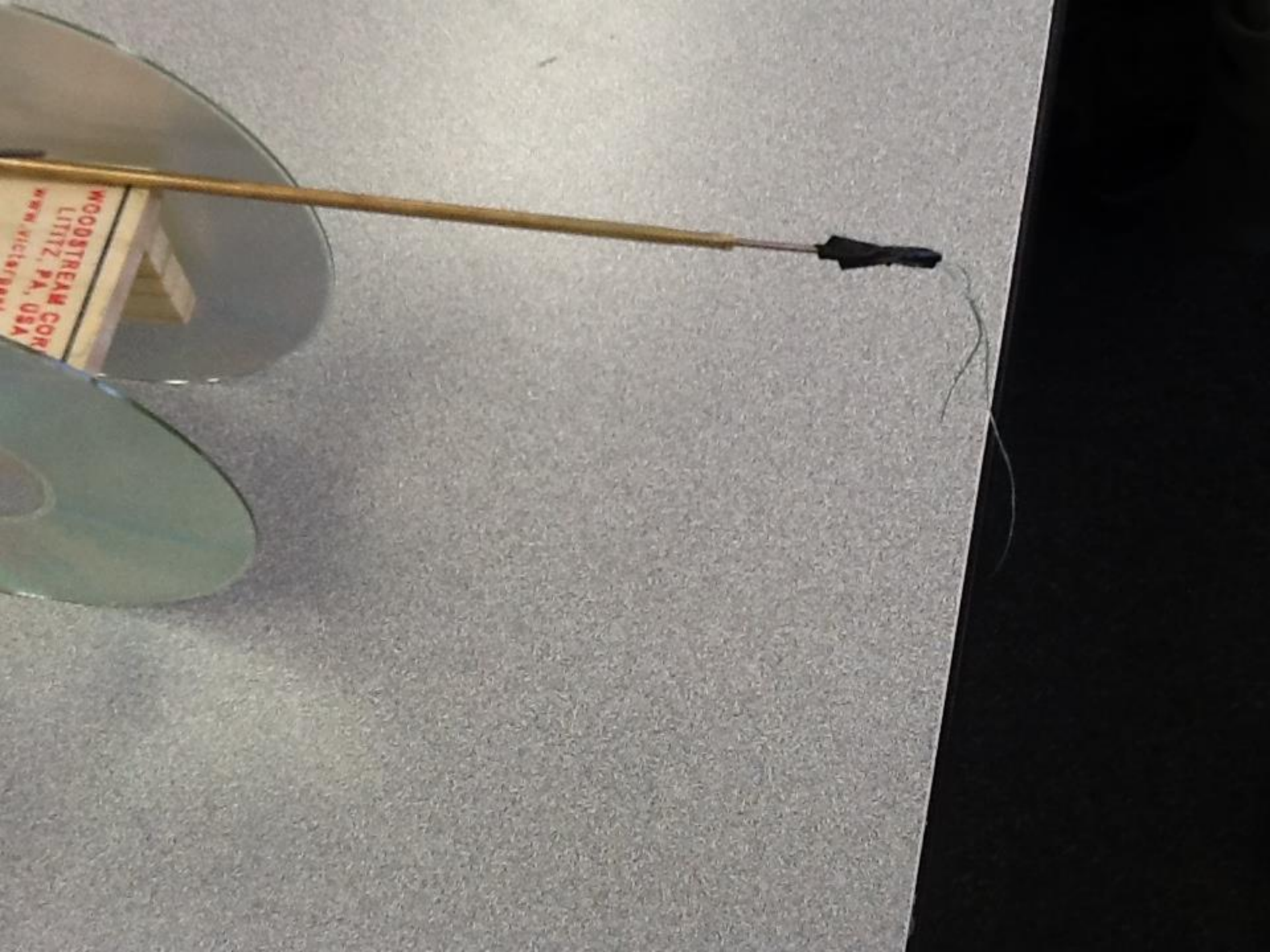




Attaching the String

- Attach the string to the hook.
- You may need to use tape to make sure the string does not slip from the hook





2nd String Loop

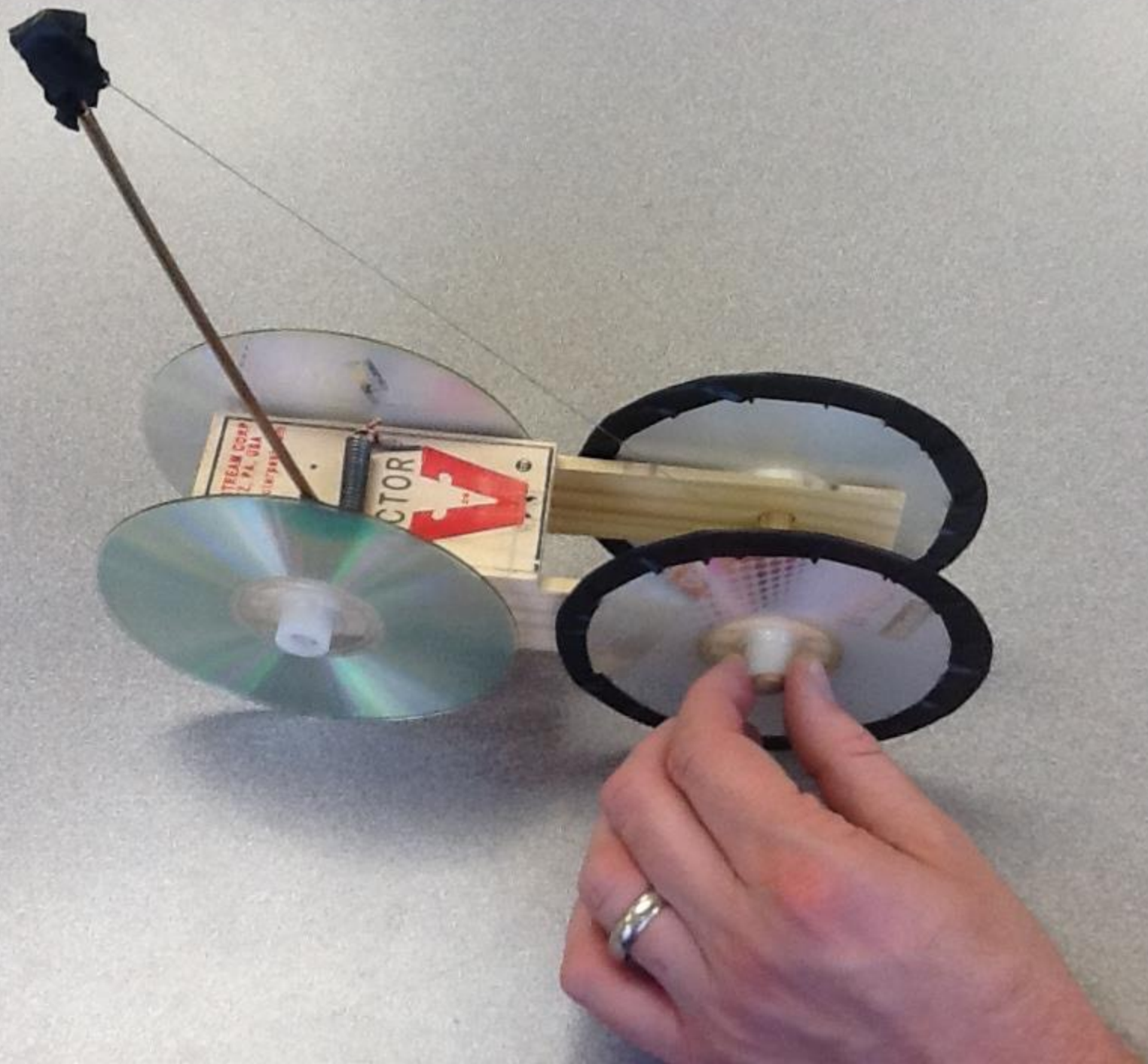
- The second string loop is attached to the zip tie and wound around the axel to provide the energy that drives the Mousetrap Car.





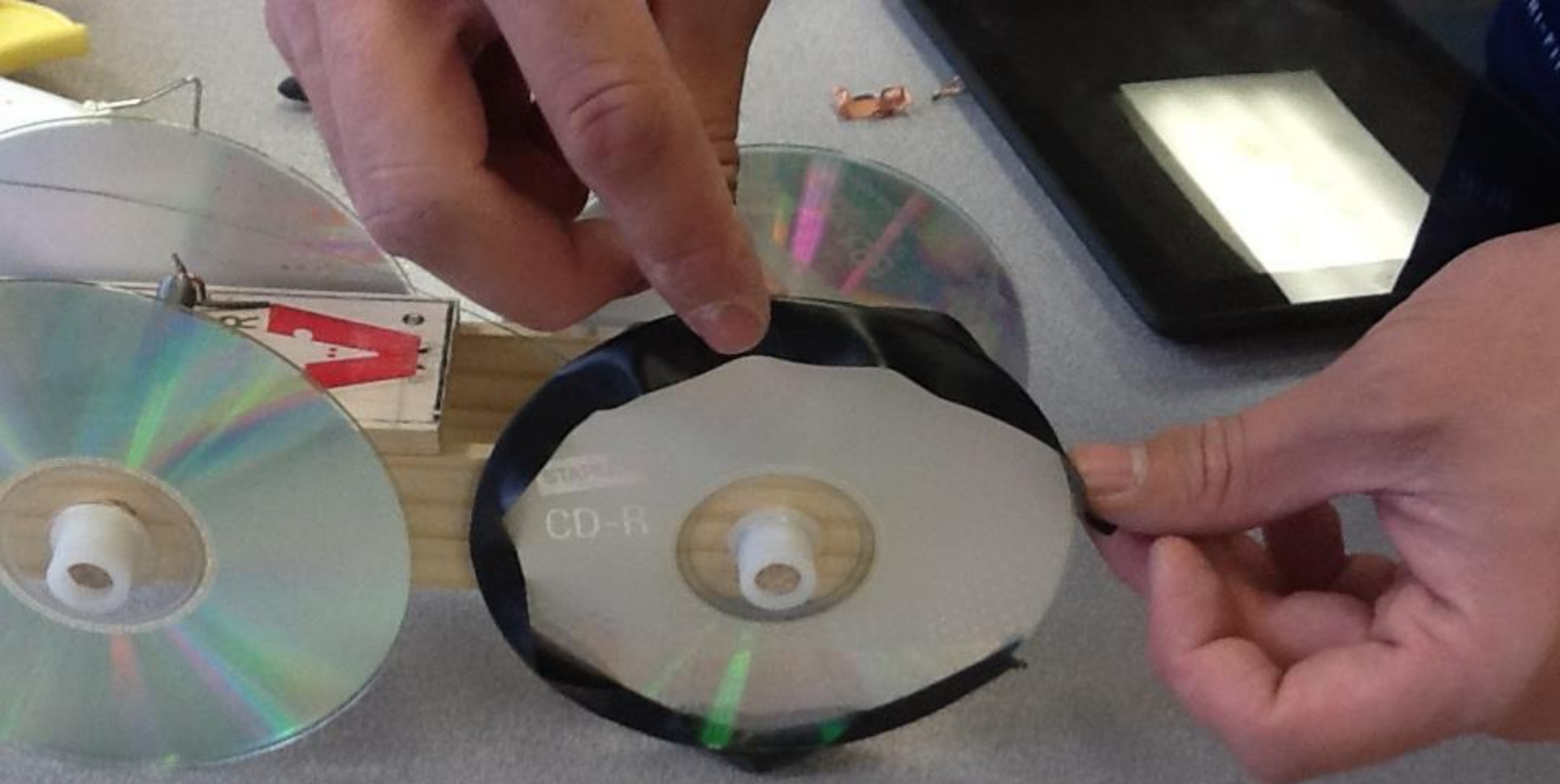
Drive!!!

- Now drive your Car 😊

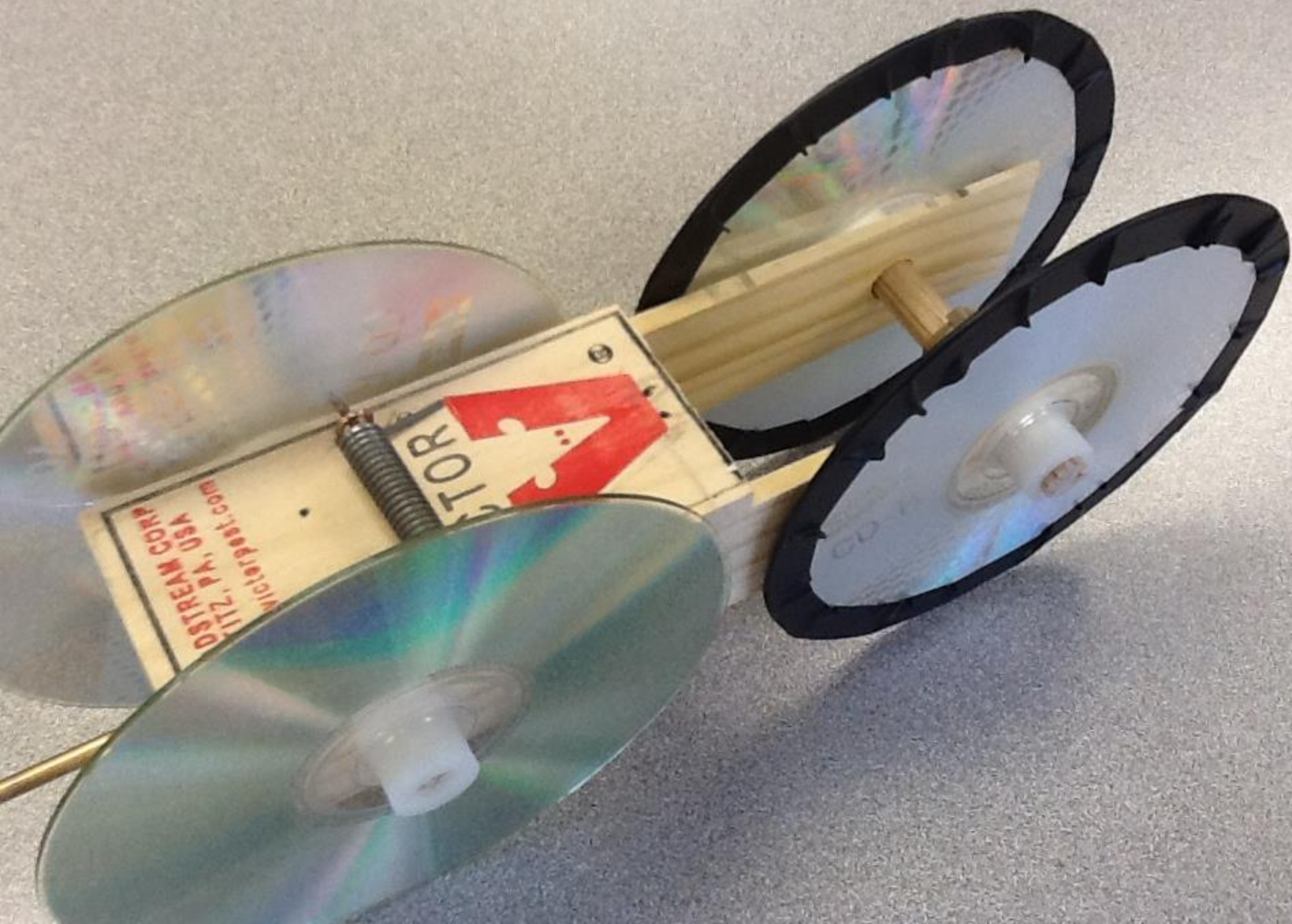


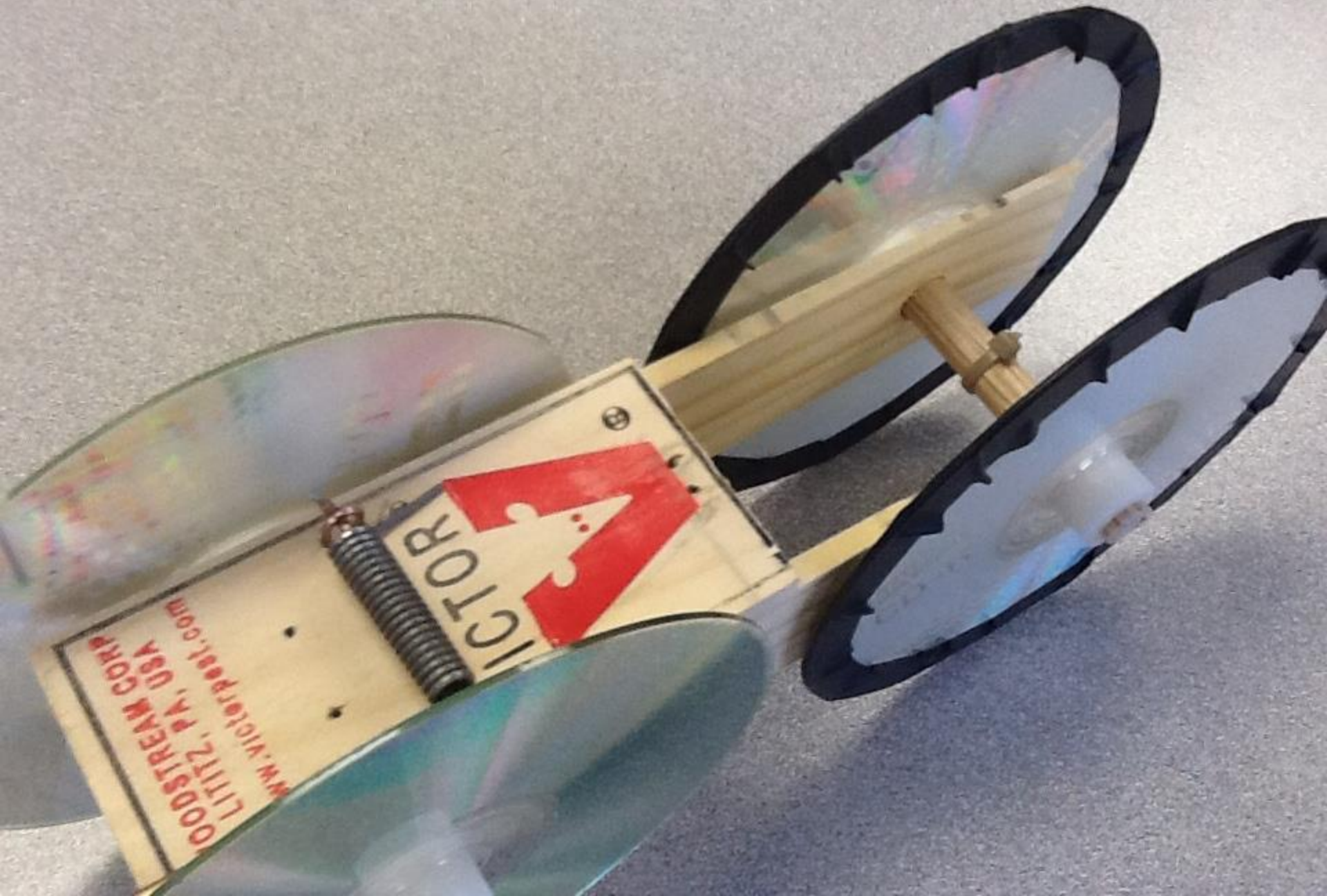


The following slides show one way to increase friction to your mousetrap car wheels. This step is not required. Other methods may be researched and used.









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