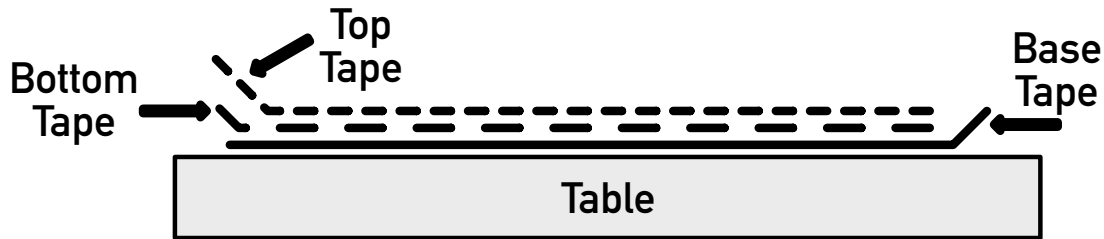


# Sticky Tape Lab



## Part A

1. Take a 15 - 20cm piece of tape and fold a small handle on one side and stick it to the table, this is the base piece of tape.
2. Take a 2nd 15 - 20cm piece of tape and fold a small handle on one side and stick it on top of the base tape, facing the opposite direction, this is the **bottom piece** of tape.
3. Take a 3rd 15 - 20cm piece of tape and fold a small handle on one side and stick it on top of the first, facing the opposite direction, this is the **top piece** of tape.
4. Repeat steps 1-3 to make a second stack of tape.
5. *Quickly* peel the **top piece** of tape off of the 1st stack and hang it off the side of the table.
6. *Quickly* peel the **top piece** of tape off of the 2nd stack and bring it near the first piece of tape.
7. Answer the following questions in your lab notebook:
  - Describe what happens.
  - Sketch a picture of what you see using arrows to indicate the direction of the forces.

## Part B

1. Repeat steps 1-4 in Part A so you have two stacks of tape.
2. Get two pieces of paper, and two pieces of aluminum foil from the front of the room.
3. Tape one of the pieces of paper, and one of the pieces of foil to the edge of the table so they are hanging down.
4. Bring the other piece of paper up to the piece of paper, *Describe what happens in your notebook.*
5. Bring the other piece of foil up to the piece of foil, *Describe what happens in your notebook.*
6. *Slowly* peel the **Top AND Bottom** piece of tape off of one of the stacks.
7. Rub the non-sticky side of the stack back and forth against the faucet.
8. *Quickly* separate the **Top AND Bottom** pieces of tape and place them on the edge of the counter.
9. *Slowly* peel the **Top AND Bottom** piece of tape off of the other stack.
10. Rub the non-sticky side of the stack back and forth against the faucet.
11. Hold the **Top piece** up to the paper, foil, bottom, and top piece of tape. *Describe what happens in your lab notebook.*
12. Hold the **Bottom piece** up to the paper, foil, bottom, and top piece of tape. *Describe what happens in your lab notebook.*