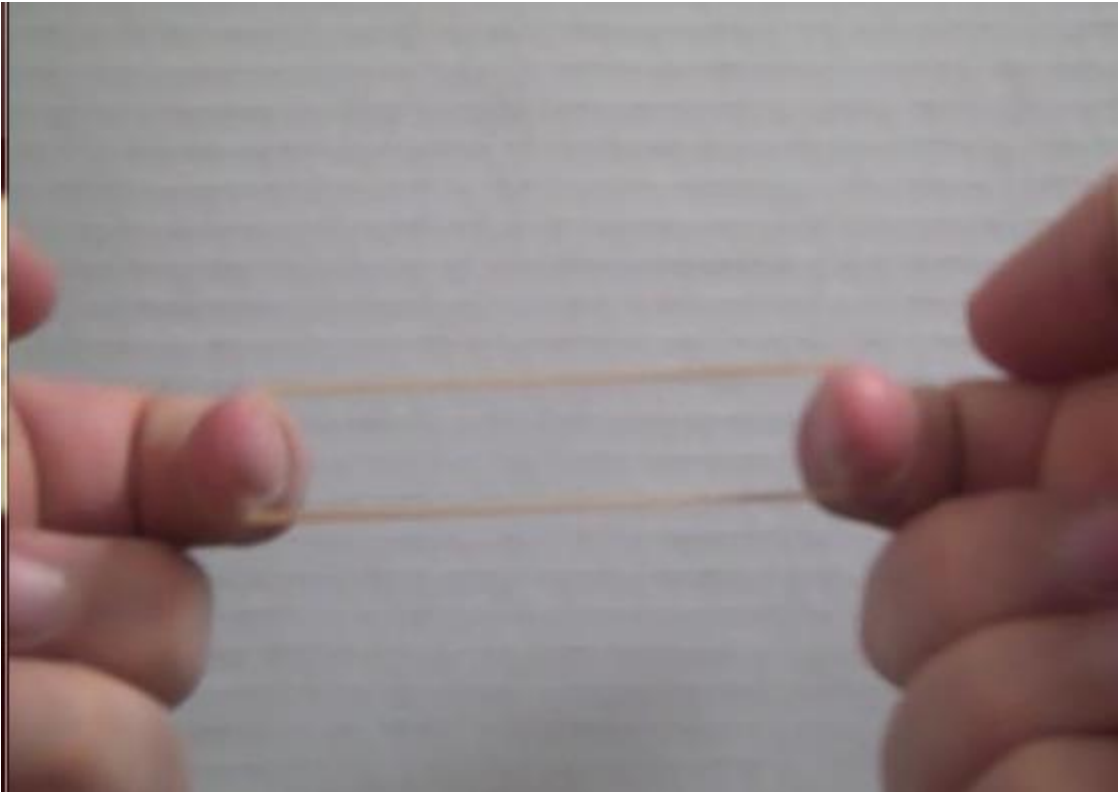


Newton's 3rd Law

Forces inquiry

- 2 people one rubber band

Step 1



- Can one person pull on the rubber band with more force than the other person? (All “?” You should answer on your paper with a complete answer)

- Rubber band and spring scale
- Hold the rubber band down to the table

Step 2



- Measure how far the rubber band stretches for 3 newtons of force. (write down and label all measurements)

Step 3

- Rubber band and two spring scales (make sure each reads 0 with no force applied)
- Stretch the rubber band between the two scales to the length you just measured



- Do both scales still read 3 newtons?
- If not do they at least have the same reading as each other?

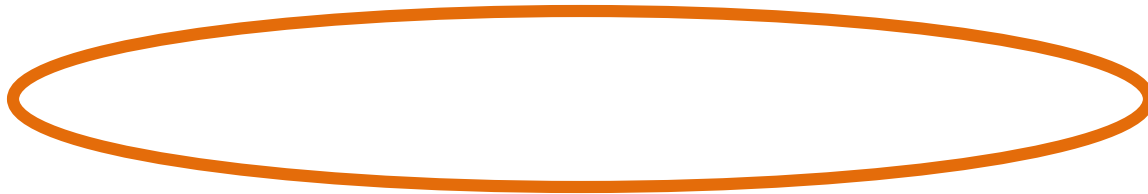
- Rubber band and two spring scales Step 4
- Hold the rubber band down to the table
- Hook the scales together as shown and pull on the end scale until the rubber band is stretched to the same length as step 2



- Do both scales still have the same reading as each other? Is it 3 newtons?

Newton's 3rd law of *Motion*

- Did steps 2-4 result in equal force on all spring scales?
- Draw the rubber band...



- Identify and draw the forces on the rubber band in step #1.
- This will be used to start the “notes”.