

Physics Summer Resources

Check out the activities below over the summer that will help you in your physics class next year.. Students are not required to hand in their responses nor will they be collected.

Patterns

- ❖ Watch this video and write down as many patterns as you noticed when comparing the ping pong ball vs. the tennis ball.
<https://www.youtube.com/watch?v=rk-6wHimbUs>

Constructing Explanations

- ❖ Examine this online simulation. After playing around with the variables, construct an explanation on how those variables may affect acceleration.
<https://www.physicsclassroom.com/Physics-Interactives/Newtons-Laws/Force/Force-Interactive>

Analyze Data

- ❖ Explore this simulation and create a data table to keep track of your findings. Based on the data you collected, try to come up with one trend that you observed.
https://phet.colorado.edu/sims/html/balancing-act/latest/balancing-act_en.html

Developing Models

- ❖ Try this simulation and draw a model to address how friction impacts an object's movements.
<https://phet.colorado.edu/en/simulation/friction>