

Newton's Notions

1. **DESCRIPTION**: Teams will be assessed on their knowledge of forces and motion.
2. **ESSENTIAL STANDARDS ALIGNMENT**: 1.P.1, 3.P.1,4.P.1, 5.P.1
3. **TEAM OF UP TO**: 2
4. **MAXIMUM TIME**: 60 min.
5. **TEAMS**: Teams must bring a writing instrument. No other resources are allowed.
6. **EVENT LEADERS**: Will provide paper and all necessary materials.
7. **SAFETY REQUIREMENTS**: None.
8. **IMPOUND**: No
9. **THE COMPETITION**: This event may be run in a station or lab format. Teams will use the materials provided to:
 - a. Determine the motion of an object such as a rolling ball or moving toy car.
 - a. Evaluate how pushing or pulling forces can change the position and motion of objects.
 - b. Determine whether forces are balanced or unbalanced in a situation and describe the resulting motion of objects.
 - c. Set up and operate simple machines to perform a task and then describe the advantages and disadvantages of the simple machines.
 - d. Classify a common object as a type of simple machine.
10. **SCORING**: Points will be awarded for the accuracy of responses. Ties will be broken by the accuracy or quality of responses to pre-selected questions chosen by the event leader.
11. **EVENT RESOURCES**: <http://www.sciencenc.com/event-help/NewtonsNotions.php>