

Bill Nye – Momentum review video

Name:

Period:

Date:

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1. The faster you go, the more _____ you have.
2. Whenever something is _____, it has momentum.
3. The faster something is going, the _____ momentum it has.
4. Two balls are moving at the same speed. The ball with more mass has _____ momentum.
5. When moving things run into each other, momentum can _____.
6. When the truck hits the holiday ornament with the brick wall behind it, it breaks the ornament. If you added up all the momentum of all the ornament pieces and all of the marbles it would equal the _____ amount of momentum as when it just bounced off the truck.
7. Circle one: If you are not moving, then you **do** — **do not** have any momentum.
8. Momentum is _____.
9. In a model rocket, the momentum of the _____ going one way equals the momentum of the rocket going the other way.
10. The ball in the Jai-alai has been clocked around _____ kilometers/hour.
11. When the ball has been soaked in liquid nitrogen to make it cold and brittle, the ball _____ when it is dropped. The momentum of all the individual pieces is _____ to the momentum of the bouncing ball. This demonstrates the _____ of _____.
12. In the Soap Box Derby, the cars have no _____, so they must rely on momentum to allow it to move.
13. A rocket is able to move because of the momentum of the _____ is in the opposite direction their momentum.
14. The rocket with the water goes higher because water is _____ than air, giving it more momentum.
15. When the tennis ball and basketball are dropped together, the basketball's momentum is _____ to the much lighter tennis ball. This sends it very high.
16. Circle one: **T** — **F** — **Maybe** Ping pong balls have lots of momentum.
17. A heavier ball will have _____ momentum than a lighter ball.
18. The ball in the roller cart of science goes up and down without changing the _____ of its momentum.
19. Susan Young works with _____ dummies at Ford.
20. In the pinball game, momentum is transferred from the plunger to the _____.
21. In the “Try This” experiment, the momentum of the air moving back _____ the momentum of the tape/balloon/straw combination going the other way.
22. In “Fly vs. Windshield”, the _____ loses because it is less massive.
23. The name of the song at the end is _____.