

Name \_\_\_\_\_ Date \_\_\_\_\_ Block \_\_\_\_\_

Looney Toons Physics

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While you watch *The Bugs Bunny/Roadrunner Movie*, answer the following questions in **COMPLETE SENTENCES**.

1. What type of liquid is in Bugs Bunny's waterfall? \_\_\_\_\_

2. Newton's 3<sup>rd</sup> law states that for every action there is an equal & opposite reaction. Explain this law in terms of how the rocket Bugs accidentally gets on operates.

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\_\_\_\_\_  
\_\_\_\_\_

3. Explain why Marv the Martian should be moving faster than he is.

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\_\_\_\_\_  
\_\_\_\_\_

4. Explain the concept of inertia with the Martian birds & scooters.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. What force pulls the Martian bird down? \_\_\_\_\_

6. Duck Dodger's transport device is called an evaporator. Why is that incorrect?

\_\_\_\_\_  
What should it be called? \_\_\_\_\_

7. What law are the ultimatum bullets breaking? \_\_\_\_\_

Explain why.

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8. When Daffy (Robin Hood) shoots his arrow what has the biggest inertia?

\_\_\_\_\_ Smallest inertia? \_\_\_\_\_

So according to Newton's 1<sup>st</sup> law what should have moved? \_\_\_\_\_

9. Who has more force: the bull or matador? Explain your answer in terms of Newton's second law. (Force is a combination of mass and acceleration.)

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10. As the bull is flying through the air, it seems as though the force of gravity or air resistance is affecting him. If he was in space, this is certainly possible. What law describes this phenomenon? \_\_\_\_\_

11. The Kitty, while she is trying to get away from Pepe LePew, travels all around the house which is 350m. She does so in 5s. What is her speed? \_\_\_\_\_

12. Would Bugs Bunny's voice travel into the opera singer's house in real life? \_\_\_\_\_  
Why or Why not? \_\_\_\_\_

13. Can sound destroy buildings? \_\_\_\_\_ Why or Why not?  
\_\_\_\_\_

14. When Bugs runs down the stairs running away from the angry & betrayed Elmer Fudd, he goes down the 78m stairs in 3.7s. What is his speed? \_\_\_\_\_

15. When the Coyote falls off the cliff, he doesn't fall until he realizes that there is not cliff. What two laws did he break? \_\_\_\_\_

Explain?

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