

THE MECHANICAL UNIVERSE
Video 2 - The Law of Falling Bodies

Name: _____
Class: _____

1. What was one of the great mysteries of physics regarding gravity?
2. What 2 objects are dropped together in a vacuum near the beginning of the video?
3. Which fell faster?
4. What 2 objects were dropped simultaneously on the moon to demonstrate Galileo's findings?
5. State Galileo's Law of Falling Bodies:
6. According to Galileo, the distance fallen is proportional to which numbers?
7. The distance fallen is proportional to the _____ of time.
8. Define instantaneous speed:
9. Write an equation for the velocity of an object during free fall at any point:
10. How does an object's acceleration change during free fall?