**Name:**

**Date:**

**School:**

**Facilitator:**

5.03 Galileo’s Falling Bodies

**Open the video Galileo’s Falling Bodies, and read the Background Essay listed under the *Support Materials* heading below the video. Then, watch the video and use what you've learned to complete the following questions. Use complete sentences.**

1. According to Aristotle, which ball should have fallen to the ground first: the bowling ball or the bouncy ball?

1. In a scenario without air resistance, would the mass, shape, or size of an object affect how fast it falls?

1. Describe Galileo’s findings about the relationship between distance and time.

1. If the ramp shown in the video had been longer:
   1. How far do you think the ball would have traveled after 4 seconds?

* 1. How far do you think the ball would have traveled after 5 seconds?

* 1. How far do you think the ball would have traveled after 6 seconds?

1. Imagine that someone is looking out of the top floor window of a skyscraper with a brick in his hand. At the same instant, someone else is looking out of the window on the floor below, also holding a brick. If both bricks were dropped at the same instant, would the distance between them increase, decrease, or remain the same over time? Why?