

*Answer the following questions that go directly with the supplemental DVD for the textbook.*

01. When a cannonball is launched or an arrow is shot from a bow, where did Aristotle say the force is coming from that keeps it moving?
  
02. When a cannonball is launched or an arrow is shot from a bow, where did Galileo say the force is coming from that keeps it moving?
  
03. Complete the following statements:
  - a. Newton's first law of motion is called the Law of \_\_\_\_\_.
  - b. An object at rest will \_\_\_\_\_.
  - c. An object in motion will \_\_\_\_\_.
  
04. Complete the following statements:
  - a. Things at rest tend to stay at rest is saying that an object has \_\_\_\_\_.
  - b. Saying an object has a lot of inertia is saying an object has a lot of \_\_\_\_\_.
  - c. Saying an object has a lot of mass is saying an object has a lot of \_\_\_\_\_.
  
05. Draw the force vector example of the weighted cylinder on the table. What does that demonstration explain?
  
06. If an object is not accelerating, we say it is in equilibrium. Explain why equilibrium show a balancing of forces.