

Name: _____ Period: _____ Date: _____

Newton's 1st Law of Motion Conceptual Questions

1. Does the law of inertia pertain to moving objects, objects at rest, or both? Support your answer with examples.

2. The law of inertia states that no force is required to maintain motion. Why, then, do you have to keep pedaling your bicycle to maintain motion?

3. If you were in a spaceship and launched a cannonball into frictionless space, how much force would have to be exerted on the ball to keep it going?

4. Does a 2-kilogram rock have twice the mass of a 1-kilogram rock? Twice the inertia? Twice the weight? (when weighed in the same location)?
